



User Guide

User Guide
Version 1.2.1

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Products

Products screen usage

Product Catalog - each product in this catalog should be correlated with the input record/transaction. The products are using for the ongoing rating of each record/transaction separately and preparing them for billing.

The products are correlated to the input record/transaction by definitions in the Input Processors section.

In this screen you will be able to add new products or edit existing ones.

Products will be rated according to predefined values.

The products can be identified and correlated with the input record/transaction by one or combination of the following methods:

1. Identifying the originating/destination longest prefix in case of a call (incoming/outgoing respectively). Prefixes are defined in this screen and will arrive on the input record/transaction fields that mentioned.
2. Product's "Key" which can be defined while creating a new Product (unique and cannot be changed after definition).
3. Product's "Unit Type" - which refers to the Usage/Unit of the input record/transaction (e.g: call/data/sms/km/cm/kg etc.). This case should be combined with other cases when the "Unit Type" is not unique.
4. Product's "Param" - which is a customized input on the product, defined by the user and enables the extending of the product's key. The customized fields will be defined in the Products screen (New/Edit). There can be none or several new Params.

Products screen fields

Main Products (Rates) screen - Automatically shows a table with all the predefined products.

From this screen it is possible to view all revisions of a product, including Closed, Active and Planned, Define new (Active) and future (Planned) products, and editing existing (Active) and future (Planned) products .

BillRun My Company

Products

List of all available products

Call Key

Revision History

Manage Revisions

State	Key	Unit Type	External Code	Modified
●	Call to USA	call	CALL-USA	10/11/2016 18:20
●	CALL_TO_ISRAEL_MOBILE	call	CALL_TO_ISRAEL_MOBILE_ALL	13/11/2016 14:23
●	HighComm-Calling	call	001	13/12/2016 15:52
●	Call to UK Product / Rate	call	CALL_TO_UK_44	25/12/2016 13:58
●	Call to Germany Product / Rate	call	CALL_TO_GERMANY_49	28/12/2016 16:18
●	Asian calling rates	call		11/01/2017 12:46
●	Unlimited calling	call	001	24/01/2017 21:04
●	Calls to Europe	call	CALL-EUROPE	22/02/2017 03:11
●	Outgoing calls (Excluding calls to other extensions)	call	CALL	22/02/2017 19:40

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What is the information shown in the Product Catalog table ?

State: product's state and revision picker (manager).

- Gray - indicates "Closed" Product (past);
- Green - indicates "Active" Products (current);
- Yellow - indicates "Planned" Products (future);

Title: product's name.

Key: product's key. A unique key to use by the system and can be used when building key identifier for the product in the input processor.

Unit Type: product's usage / unit type which the products will be grouped into, and will be charged by it.

External Code: product's code - Can be used to match to product codes used by other systems such as ERP.

Modified: product's creation or edit date and time. The product is valid from this date until 100 years since this date or until a new revision of the product will be active.

How to search for an existing product ?

Products can be found by searching a value in the "Search for..." input field above the products table.

The value will be searched by a specific field that should be checked in "Search in fields" drop down list button.

Press Enter or the magnifier (search) button to activate the search.

The eraser button next to the magnifier (search) button is for resetting "Search for..." input field.

After having the list of products, it is possible to see a short "Revision History" preview for a specific product and manage its history, by pressing the coloured "State" button left sided to the Product's Title, and then in the "Revision History" pop-up press the "Manage Revision".

After pressing the "Manage Revision", a full "Revision History" pop-up window that contains all the available Products Revision History list - will be displayed and will enable picking the Future (Planned) Product or the Current (Active) Product in case a Future (Planned) Product doesn't exist.

At any time, only the last active Product in the "Revision History" can be edited no matter if it's a future activated Product or currently active Product.

It is also possible to predefine the Product's States for search by using the "States" drop down list at the upper right corner above the Products table.

The available statuses are "Closed", "Active" and "Planned", while all of the statuses can be checked and create a combination of all statuses for selection. After marking the requested statuses for selection and pressing "States" button once again, the Products table will be updated and show only the requested statuses.

Full "Revision History" pop-up example when there is **NO** Future Product:

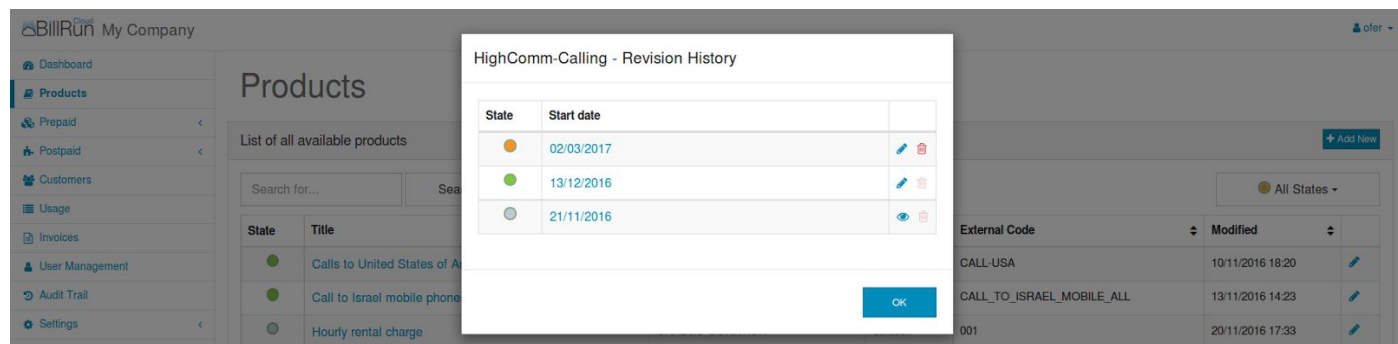
The screenshot shows the BiliRun My Company interface. A pop-up window titled "HighComm-Calling - Revision History" is displayed over the "Products" table. The pop-up contains a table with the following data:

State	Start date
●	13/12/2016
●	21/11/2016

The background shows the "Products" table with the following data:

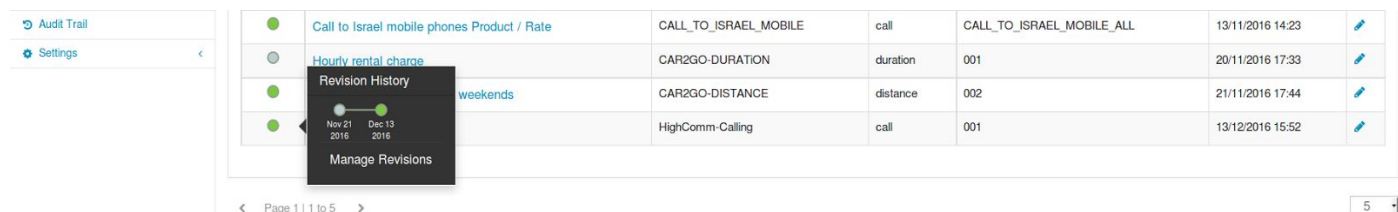
State	Title	External Code	Modified
●	Calls to United States of A	CALL-USA	10/11/2016 18:20
●	Call to Israel mobile phone	CALL_TO_ISRAEL_MOBILE_ALL	13/11/2016 14:23
●	Hourly rental charge	CAR2GO-DURATION	20/11/2016 17:33

Full “Revision History” pop-up example when there **IS** Future Product:

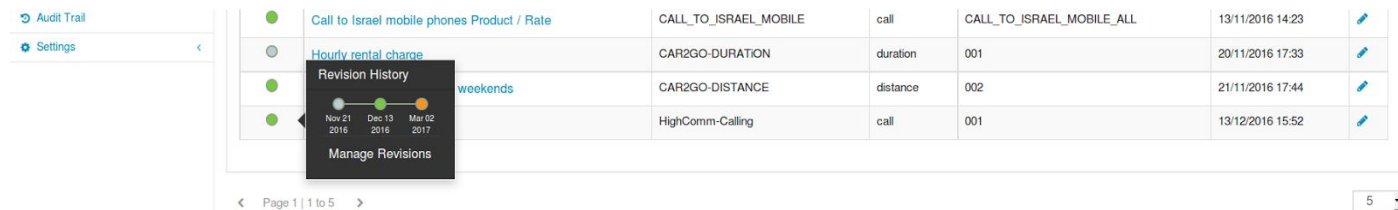


The short “Revision History” preview shows the same info, in a different view and up to 5 last revisions. While it is possible to pick a Product for edit or remove from the Full “Revision History” (as shown above), the Short “Revision History” is for display purposes, and Products can be picked and edited after pressing the “Manage Revisions” and moving to the Full “Revision History”.

Short “Revision History” pop-up example when there **is NO** Future Product:



Short “Revision History” pop-up example when there **IS** Future Product:



How to edit or delete an existing product ?

Products values can be edited in two ways:

- By pressing the pencil on the right side of each line in the products table.
- By pressing the pencil on the right side of the available revision of a Product in the Full “Revision History”.

Only future revision of a product can be deleted by pressing the recycle bin on the right side of the available revision of a Product in the Full “Revision History”.

Edit Product screen - Filled with the selected product’s data when in edit mode.

On the upper right side of the selected Product’s revision screen, there is a short revision history ruler preview of the latest three revisions: Closed, Active, Planned (If available).

The current open revision screen will be marked with a bolded circle on the ruler.

Current Product's revision - can't be edited because there is a future Product's revision:

BillRun My Company

offer

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Products

Revisions History 22/02/2017 - 02/03/2017

Feb 22 2017 Feb 22 2017 Mar 02 2017 Manage Revisions

You cannot edit the current revision because a future revision exists.

Title Outgoing calls (Excluding calls to other extensions)

External Code CALL

Prefixes 0,1,2,3,4,5,6,7,8,9

Unit Type call

Pricing

This product is not VAT rated

From	To	Interval	Price Per Interval
0	6	6	0
7	60	54	0.029
61	Infinite	60	0.029

Additional Parameters

MSC 972

Save

Cancel

Future Product's revision - can be edited because it's there last available revision:

It can be deleted from the list in the Full "Revision History" screen.

BillRun My Company

offer

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Update product - CALL

Revisions History From 02/03/2017

Feb 22 2017 Feb 22 2017 Mar 02 2017 Manage Revisions

Title Outgoing calls (Excluding calls to other extensions)

External Code CALL

Prefixes x 0 x 1 x 2 x 3 x 4 x 5 x 6 x 7 x 8 x 9

Unit Type call

Pricing

☐ This product is VAT rated

From	To	Interval	Price Per Interval
0	6	6	0
7	60	54	0.029
61	Infinite	60	0.029

+ Add New

Remove

Additional Parameters

MSC 972

+ Add New

Edit

Remove

Save

Cancel

If there is **NO** Planned (future) revision - the current revision will be editable and will allow creation of new revision by choosing a different date on the left side of the upper frame.

Saving the Product, after changing the date and other values in the product will create a new Future revision.

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Edit product - CALL

Revisions History From: 07/03/2017

Feb 22 2017 Feb 22 2017 Mar 02 2017 Manage Revisions

Title: Outgoing calls (Excluding calls to other extensions)

External Code: CALL

Prefixes: 0 1 2 3 4 5 6 7 8 9

Unit Type: call

Pricing

☐ This product is VAT rated

From	To	Interval	Price Per Interval
0	6	6	0
7	60	54	0.029
61	Infinite	60	0.029

+ Add New Remove

Additional Parameters

Parameter	Value
MSC	972

+ Add New Edit Remove

Save Cancel

What are the fields shown in the Edit Product screen ?

General

Name: product's name. This value is a reference to the input CDR in industries other than telecom.

Code: product's code - currently not in use.

Description: product's description.

Unit Type: product's usage/unit type which the products will be grouped into, and will be charged by it.

Prefixes: for rating use in telecom industry. Identifies the call's destination by using best match on the destination (dialled/called) number. This value is a reference to the input CDR in telecom.

From: product starts/effective from this date-time (valid from).

To: product ends/expire at this date-time (valid to).

Pricing

From: current interval's step start point - 1st step will always start at 0.

To: current interval's step endpoint - will use as upper border for each step and the beginning of the next step if exists.

Interval: number of units that will be used for rounding up in each step.

Price Per Interval : each rated unit (rounded interval) in each step will be charged by multiplying by this value.

Add New: will add new step to charge.

Additional Parameters

Add New: will add new parameter to use as part of the key to identify the input record/transaction. Each press on the “Add New” button will pop-up window which contains the name and value of the new key field. Each new field can be edited or deleted.

How can I add new product ?

Press the “Add New” button on the upper right side of the Product Catalog table in the main Products screen. Fill up all the fields as described in “What are the fields shown in the Edit Product screen” section, and press Save.

Prepaid

This menu is relevant for Prepaid Customers/Subscribers only.

Plans

Prepaid Plans screen usage

Prepaid subscribers plans.

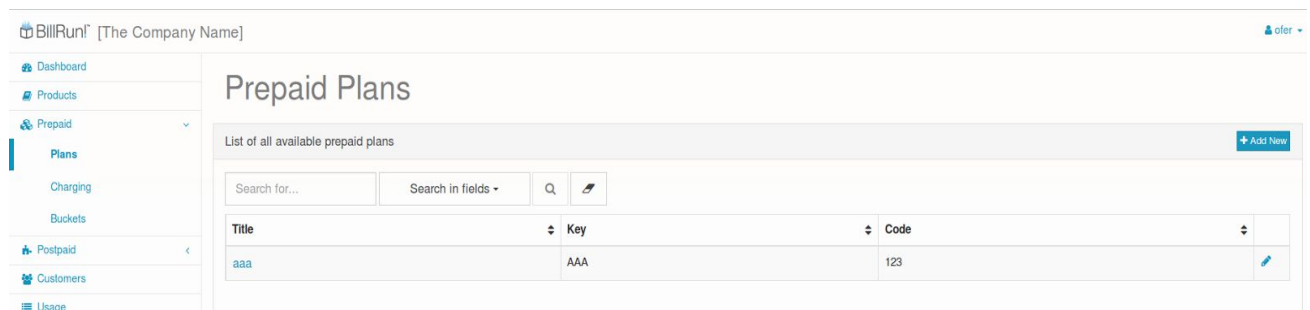
Prepaid subscribers are not charged for their plans.

A plan is a kind of membership, and any subscriber must have one.

The plan determines a prepaid subscriber behaviour - restrictions, permissions, amounts/volumes, periods, thresholds, notifications etc.

Prepaid Plans screen fields

Main Prepaid Plans screen - Automatically shows a table with all the predefined customer plans.



Title	Key	Code
aaa	AAA	123

What is the information shown in the Prepaid Plans table ?

Title: plan’s name - to be presented in the bill.

Key: unique plan’s key - for use by the system - Not editable.

(External) Code: reference to the old system - identifier for the user in case of API usage.

How to search for an existing plan ?

Plans can be found by searching a value in the “Search for...” input field above the Plans table.

The value will be searched by a specific field that should be checked in “Search in fields” drop down list button.

Press Enter or the magnifier (search) button to activate the search.

The eraser button next to the magnifier (search) button is for resetting “Search for...” input field.

How to edit an existing plan ?

Prepaid Plans values can be edited by pressing the pencil on the right side of each line in the plans table.

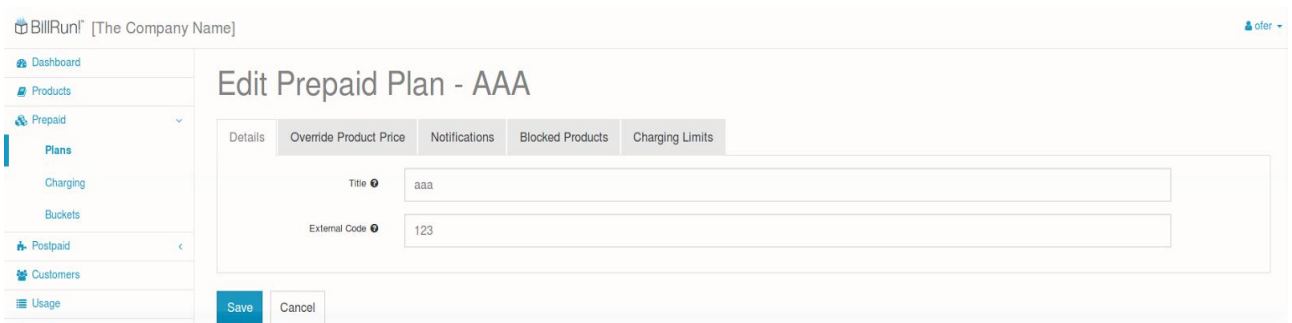
Edit Prepaid Plan screen - Filled with the selected plan’s data when in edit mode.

What are the fields shown in the Edit Prepaid Plan screen ?

See details below in tabs explain.

What is the use of each tab in the Edit Prepaid Plan screen ?

Details tab:



Usage:

Define the Plan’s name, code and key.

Fields:

Title: plan’s name - to be presented in the bill.

Key: unique plan’s key - for use by the system - this field exist and editable only in edit mode.

External Code: reference to the old system - identifier for the user in case of API usage.

Override Product Price tab:

The screenshot shows the 'Edit Prepaid Plan - AAA' interface with the 'Override Product Price' tab selected. The left sidebar contains a navigation menu with options: Dashboard, Products, Prepaid (expanded), Plans (selected), Charging, Buckets, Postpaid, Customers, Usage, Invoices, User Management, Audit Trail, and Settings. The main content area has a header 'Edit Prepaid Plan - AAA' and a sub-header 'Select Products to Override Price'. Below this is a search bar 'Search by product key...'. A table lists products with columns: From, To, Interval, and Price Per Interval. The first row shows 'CALL_TO_UK CALL_TO_UK_44' with 'From' 0, 'To' 100, 'Interval' 10, and 'Price Per Interval' 0.4. The second row shows '100' with a checked 'Unlimited' checkbox, 'Interval' 1, and 'Price Per Interval' 0.3. There are 'Restore' and 'Remove' buttons for each row. An 'Add New' button is at the bottom. At the very bottom of the interface are 'Save' and 'Cancel' buttons.

Usage:

Changing the market (original) price of a selected product for subscriber who is registered on a specific plan. See the Product Pricing section to learn more about editing a product.

Fields:

In the “Select Products to Override Price” panel, start typing (auto completion) the product you want to use. Select from the predefined products list.

The product definitions panel will be added automatically.

The product is now available for editing, the same way as products in the Products screen.

Notifications:

The screenshot shows the 'Edit Prepaid Plan - AAA' interface with the 'Notifications' tab selected. The left sidebar is the same as in the previous screenshot. The main content area has a header 'Edit Prepaid Plan - AAA' and a sub-header 'Select prepaid bucket'. Below this is a dropdown menu 'Select'. A table lists buckets with columns: Value, Type, and Message. The first row shows 'Test Bucket' with 'Value' -10, 'Type' sms, and 'Message' 'Your balance is about to expire. Please reload in our website or by top-up card.' There are 'Add New' and 'Remove' buttons. At the bottom are 'Save' and 'Cancel' buttons.

Usage:

Define thresholds and message for sending notification to the customers who have the current plan, when reaching the lower limit of s specific bucket (balance). Each bucket has it’s own limitation (if defined).

Fields:

In the “Select prepaid bucket” panel, start typing (auto completion) the bucket you want to use. Select from the predefined buckets list.

The bucket notification panel will be added automatically.

The bucket notification is now available for editing.

Value: when the balance/amount/volume in the bucket reach this value - a notification will be sent to the C subscriber.

Type: the notification sending method. Currently for API use only, by the B customer/carrier.

Message: the message that will be sent by the B customer/carrier the the C subscriber.

Blocked Products:

The screenshot shows the 'Edit Prepaid Plan - AAA' interface. On the left is a sidebar with a menu: Dashboard, Products, Prepaid (expanded), Plans (selected), Charging, Buckets, Postpaid, Customers, Usage, Invoices, User Management, and Audit Trail. The main content area has tabs: Details, Override Product Price, Notifications, Blocked Products (active), and Charging Limits. Under the 'Blocked Products' tab, there is a section titled 'Blocked products' containing two tags: 'CALL_TO_UK' and 'CALL_TO_GERMANY'. Below these tags is a search bar with the placeholder text 'Search by product key...'. At the bottom of the main content area are 'Save' and 'Cancel' buttons.

Usage:

Products (destinations) listed in this tab will be blocked for use by the C subscribers who have this plan.

Fields:

In the “Blocked products” panel, start typing (auto completion) the product you want to block. Select from the predefined products list.

The product that should be blocked will be added automatically.

Charging Limits: (name should be changed to Recharge)

The screenshot shows the 'Edit Prepaid Plan - AAA' interface with the 'Charging Limits' tab selected. The sidebar is the same as in the previous screenshot. The main content area has tabs: Details, Override Product Price, Notifications, Blocked Products, and Charging Limits (active). Under the 'Charging Limits' tab, there is a section titled 'Select prepaid bucket' with a dropdown menu showing 'Select'. Below this is a section titled 'Test Bucket' with a text input field containing '-10000' and a small icon to its right. At the bottom of the main content area are 'Save' and 'Cancel' buttons.

Usage:

Define the maximum amount/volume that can be recharged in a bucket.

Exceeding this amount/volume will cause a loss of the exceeded amount/volume.

When no bucket is defined there will be no limitations.

“0” value will prevent any recharge to the bucket.

Fields:

In the “Select prepaid bucket” panel, start typing (auto completion) the bucket you want to limit. Select from the predefined buckets list.

The bucket that should be limit will be added automatically.

Fill the limitation amount/volume.

How can I add new plan ?

Press the “Add New” button on the upper right side of the Prepaid Plans table in the main Prepaid Plans screen.

Fill up all the fields as described in “[What is the use of each tab in the Edit Prepaid Plan screen](#)” section, and press Save.

Charging

Prepaid Buckets Group screen usage

Build charging plans for prepaid subscribers.

Charging plan contains package of bucket(s) - at least one bucket. Recharge of buckets to a subscriber can be done by recharge the requested amount/volume directly to a bucket or by recharge a charging plan that contains one or more buckets.

Each bucket in the charging plan has a value for the amount/volume the name and id of the bucket and a validity period - usually in days. The amount/volume in the bucket will be valid from the recharge date till the date at the valid period (recharge date + validity period).

Bucket is also called Balance.

Prepaid Buckets Group screen fields

Main Prepaid Charging Plans screen - Automatically shows a table with all the predefined charging plans.

BillRun! The Company Name

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Charging Plans

List of all available prepaid plans

Search for... Search in fields

Title	Key	External Code	Operation	Charging value
abc	ABC	123		10

+ Add New

What is the information shown in the Prepaid Charging Plans table ?

Title: charging plan's name for identification.

Key: unique plan's key - for use by the system - Not editable.

External Code: reference to the old system - identifier for the user in case of API usage.

Operation: Type of action to apply on a bucket -

- **Set:** override all values including amount/volume, in existing bucket or create new bucket if not exist. Bucket's expiration date will be the latest between the existing expiration date and the new expiration set by the recharge.
- **Increment:** will add the new recharge amount/volume to the existing bucket amount/volume or create new bucket if not exist. **Bucket's expiration date will be the latest between the existing expiration date and the new expiration set by the recharge.**
- **New:** create new bucket unconditional (even if there is existing bucket or not).

Charging value: **the charging plan code. Represent the charging plan.**

How to search for an existing charging plan ?

Charging plans can be found by searching a value in the "Search for..." input field above the Charging Plans table. The value will be searched by a specific field that should be checked in "Search in fields" drop down list button.

Press Enter or the magnifier (search) button to activate the search.

The eraser button next to the magnifier (search) button is for resetting "Search for..." input field.

How to edit an existing charging plan ?

Charging plans values can be edited by pressing the pencil on the right side of each line in the plans table. Edit Charging Plan screen - Filled with the selected charging plan's data when in edit mode.

What are the fields shown in the Edit Charging Plan screen ?

See details below in tabs explain.

What is the use of each tab in the Edit Charging Plan screen ?

Details tab:

BillRun! [The Company Name]

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Edit Charging Plan - ABC

Details | Prepaid Buckets

Title: abc

External Code: 123

Operation: Increment

Charging value: 10

Save Cancel

Usage:

Define the Plan's name, code and key.

Fields:

Title: charging plan's name for identification.

Key: unique charging plan's key - for use by the system - this field exist and editable only in edit mode.

External Code: reference to the old system - identifier for the user in case of API usage.

Operation: Type of action to apply on a bucket -

- **Set:** override all values including amount/volume, in existing bucket or create new bucket if not exist. Bucket's expiration date will be the latest between the existing expiration date and the new expiration set by the recharge.
- **Increment:** will add the new recharge amount/volume to the existing bucket amount/volume or create new bucket if not exist. **Bucket's expiration date will be the latest between the existing expiration date and the new expiration set by the recharge.**
- **New:** create new bucket unconditional (even if there is existing bucket or not).

Charging value: **the charging plan code. Represent the charging plan.**

Prepaid buckets tab:

BillRun [The Company Name] offer

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Edit Charging Plan - ABC

Details Prepaid Buckets

Select prepaid bucket

Select...

Test Bucket

Volume -500

Duration 30 Days

SMS Bucket

Volume -100

Duration 15 Days

Save Cancel

Usage:

Define the buckets and it's attributes in the charging plan.

Fields:

In the "Select prepaid bucket" panel, start typing (auto completion) the bucket you want to add. Select from the predefined buckets list.

The selected bucket will be added automatically.

You can add one or all of the predefined buckets to the list.

Fill all the requested fields in each bucket.

Volume: the amount/value to recharge for the subscriber's bucket. We use negative values for accounting reasons. Each use from the bucket's volume will reduce the negative - inclining direction towards "0", which means no volume/units credit left in the bucket and therefore won't be given allowance to execute an activity.

Duration: the period that this bucket will be valid starting from the moment of recharge. The number in the duration will be added to the start date-time in order to determine the end date-time.

- Left input field: the amount/number of units from the type that should be selected from the right dropdown field, in order to add to the start date-time and define the end date-time.
- Right dropdown field: the type of the unit amount/number that should be selected, in order to add to the start date-time and define the end date-time.

How can I add a new charging plan ?

Press the "Add New" button on the upper right side of the Charging Plans table in the main Prepaid Charging Plans screen.

Fill up all the fields as described in "[What is the use of each tab in the Edit Charging Plan screen](#)" section, and press Save.

Buckets

Prepaid Buckets screen usage

Build all available buckets in the system.

Buckets built to use as a different logical wallet/balance - each bucket is used for a specific, different activity (e.g bucket for sms, calls {inbound, outbound, etc.}, data, etc.). This buckets have a limited time period for use - after this time period, the bucket will not be available for any use.

Core balance bucket is exceptional and consist of currency units (not volume or duration like the others), and therefore can be used for all type of activities. This backed has no time limitation.

Buckets can be shared between all C subscribers within a B customer account, **or be unlimited**.

Buckets can be limited to use for specific products for a certain plan (e.g restrict the sms bucket for "unique_plan_#01", so it would be able to send sms only to products/destinations that starts with 123...).

The use of buckets can be prioritized.

Prepaid Buckets screen fields

Main Prepaid Buckets screen - Automatically shows a table with all the predefined buckets.

Name	Charging by	Charging by usaget	Priority
Test Bucket	usagev	call	11
SMS Bucket	usagev	sms	300

What is the information shown in the Prepaid Charging Plans table ?

Name: prepaid bucket's name for identification.

Charging by: the charging of each bucket can be by one of the following (Indicating the system how to rate each bucket/activity):

usagev: for activity involves volume, duration, amount/unit.

cost: for activity involves currency for a specific bucket.

total_cost: currency bucket for any activity.

Charging by usaget: allocating the relevant bucket to rate and charge an activity (call, sms, data, etc.)

Priority: usage prioritization between buckets (e.g use bonus bucket before calls bucket before core balance bucket). Prioritization defined by a number. The highest will be the 1st.

How to search for an existing bucket ?

Buckets can be found by searching a value in the “Search for...” input field above the Prepaid Buckets table. The value will be searched by a specific field that should be checked in “Search in fields” drop down list button.

Press Enter or the magnifier (search) button to activate the search.

The eraser button next to the magnifier (search) button is for resetting “Search for...” input field.

How to edit an existing bucket ?

Buckets values can be edited by pressing the pencil on the right side of each line in the plans table.

Edit Prepaid Buckets screen - Filled with the selected bucket's data when in edit mode.

What are the fields shown in the Edit Prepaid Buckets screen ?

See details below in tabs explain.

What is the use of each tab in the Edit Prepaid Bucket screen ?

Details tab:

BillRun [The Company Name] offer

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Edit Prepaid Bucket - SMS Bucket

Details Limited Products

Name SMS Bucket

External ID 123

Priority 300

Charging by Usage volume

Usage type sms

Shared bucket ☐

Unlimited ☐

Save Cancel

Usage:

Define the bucket's details as explained in Usage and Fields.

Fields:

Name: prepaid bucket's name for identification.

External ID: Id that will be used by 3rd party system to charge the bucket.

Priority: usage prioritization between buckets (e.g use bonus bucket before calls bucket before core balance bucket). Prioritization defined by a number. The highest will be the 1st.

Charging by: the charging of each bucket can be by one of the following (Indicating the system how to rate each bucket/activity):

usagev: for activity involves volume, duration, amount/unit.

cost: for activity involves currency for a specific bucket.

total_cost: currency bucket for any activity.

Usage type: allocating the relevant bucket to rate and charge an activity (call, sms, data, etc.)

Shared bucket: the bucket will be shared by all subscribers associated with an account.

Unlimited: change the bucket behaviour so it won't be limited by time period (like Core Balance).

Limited Products tab:

BillRun [The Company Name]

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Customers
Usage
Invoices
User Management
Audit Trail
Settings

Edit Prepaid Bucket - SMS Bucket

Details Limited Products

Search by plan name...

BASE

CALL_TO_ISRAEL_MOBILE

HighComm-Business Advantage

Call to USA

Save Cancel

Usage:

Define the bucket's use limitations by plan and product/destination (e.g restrict the sms bucket for "unique_plan_#01", so it would be able to send sms only to products/destinations that starts with 123...). Allow specific products (destinations) for a specific customer plan (C subscriber) in a specific bucket. In case where no limitations defined - all products (destinations) are allowed in this bucket. If BASE is defined with specific products in a bucket - all C subscribers will be able to use only those specific products in this bucket. BASE in this case is equivalent to market limitations on a bucket.

Fields:

In the upper panel, start typing (auto completion) the prepaid plan you want to add. Select from the predefined prepaid plans list.

In the new "PLAN_NAME" panel, start typing (auto completion) the product(s) you want to add. Select from the predefined prepaid plans list.

Save.

How can I add a new bucket ?

Press the “Add New” button on the upper right side of the Prepaid Buckets table in the main Prepaid Buckets screen.

Fill up all the fields as described in “[What is the use of each tab in the Edit Prepaid Bucket screen](#)” section, and press Save.

Postpaid

This menu is relevant for Postpaid Customers/Subscribers only.

Plans

Postpaid Plans screen usage

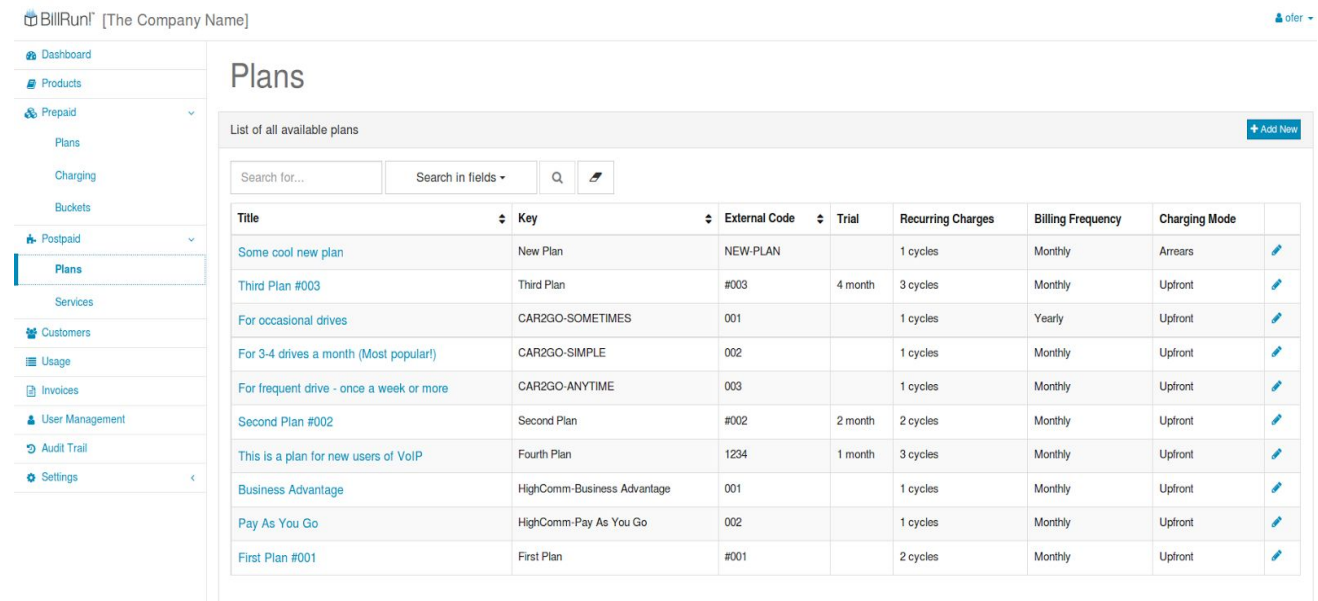
Postpaid subscribers plans.

Postpaid subscribers are charged for their plans.

The plan determines a postpaid subscriber behaviour - restrictions, permissions, amounts/volumes, periods, thresholds, notifications etc.

Postpaid Plans screen fields

Main Postpaid Plans screen - Automatically shows a table with all the predefined customer plans.



Title	Key	External Code	Trial	Recurring Charges	Billing Frequency	Charging Mode
Some cool new plan	New Plan	NEW-PLAN		1 cycles	Monthly	Arrears
Third Plan #003	Third Plan	#003	4 month	3 cycles	Monthly	Upfront
For occasional drives	CAR2GO-SOMETIMES	001		1 cycles	Yearly	Upfront
For 3-4 drives a month (Most popular!)	CAR2GO-SIMPLE	002		1 cycles	Monthly	Upfront
For frequent drive - once a week or more	CAR2GO-ANYTIME	003		1 cycles	Monthly	Upfront
Second Plan #002	Second Plan	#002	2 month	2 cycles	Monthly	Upfront
This is a plan for new users of VoIP	Fourth Plan	1234	1 month	3 cycles	Monthly	Upfront
Business Advantage	HighComm-Business Advantage	001		1 cycles	Monthly	Upfront
Pay As You Go	HighComm-Pay As You Go	002		1 cycles	Monthly	Upfront
First Plan #001	First Plan	#001		2 cycles	Monthly	Upfront

What is the information shown in the Postpaid Plans table ?

Title: plan’s name - to be presented in the bill.

Key: unique plan’s key - for use by the system - Not editable.

External Code: reference to the old system - identifier for the user in case of API usage.

Trial: OPTIONAL - **number of month** (cycles) free of charge (trial period).

Recurring Charges: number of charged cycles. Each cycle period determines in the **Billing Frequency**.

Billing Frequency: the time period of each cycle.

Charging Mode: determines when the plan will be charged:

- Arrears: payment after the usage/billing cycle.
- Upfront: payment before the usage/billing cycle.

How to search for an existing plan ?

Plans can be found by searching a value in the “Search for...” input field above the Plans table.

The value will be searched by a specific field that should be checked in “Search in fields” drop down list button.

Press Enter or the magnifier (search) button to activate the search.

The eraser button next to the magnifier (search) button is for resetting “Search for...” input field.

How to edit an existing plan ?

Postpaid Plans values can be edited by pressing the pencil on the right side of each line in the plans table.

Edit Postpaid Plan screen - Filled with the selected plan’s data when in edit mode.

What are the fields shown in the Edit Postpaid Plan screen ?

See details below in tabs explain.

What is the use of each tab in the Edit Postpaid Plan screen ?

Details tab:

BillRun! [The Company Name]

Dashboard
Products
Prepaid
Postpaid
Plans
Services
Customers
Usage
Invoices
User Management
Audit Trail
Settings

Edit plan - CAR2GO-SOMETIMES

Details | Override Product Price | Plan Includes

Title: For occasional drives

External Code: 001

Billing Frequency: Yearly

Charging Mode: Upfront

Trial Period

Period	Cycles	Price	
1	<input type="text"/>	<input type="text"/>	<button>Remove</button>

Recurring Charges

Period	Cycles	Price	
2	<input type="checkbox"/> Unlimited 1	140	<button>Remove</button>

[Add New](#)

[Save](#) [Cancel](#)

Usage:

Edit the Plan's name, code and key.

Fields:

Title: plan's name - to be presented in the bill.

Key: unique plan's key - for use by the system - Not editable.

External Code: reference to the old system - identifier for the user in case of API usage.

Billing Frequency: the time period of each cycle.

Charging Mode: determines when the plan will be charged:

- **Arrears:** payment after the usage/billing cycle.
- **Upfront:** payment before the usage/billing cycle.

Trial Period (Panel): **OPTIONAL (can be Removed)** - **number of month** (cycles) free of charge (trial period). Defining period with X cycles and X price in "Recurring Charges Panel" will have the same effect.

Period: indexing each period of cycles with a specific price.

Cycles: how many cycles will run through this period with this price.

Price: the price of this period of cycles.

Recurring Charges Panel: number of charged cycles. Each cycle period determines in the **Billing Frequency**. Must have at least one period. Can have N periods. The 1st period can be used for trial.

Period: indexing each period of cycles with a specific price (will start with 2 if there is a trial period).

Cycles: how many cycles will run through this period with this price.

Price: the price of this period of cycles.

Override Product Price tab:

BillRun! [The Company Name] offer

Dashboard
Products
Prepaid
Postpaid
Plans
Services
Customers
Usage
Invoices
User Management
Audit Trail
Settings

Edit plan - CAR2GO-SOMETIMES

Details Override Product Price Plan Includes

Select Products to Override Price

Search by product key...

CALL_TO_UK CALL_TO_UK_44 Restore Remove

From	To	Interval	Price Per Interval
0	100	10	0.4
100	Unlimited	1	0.3

+ Add New Remove

Save Cancel

Usage:

To override to product's original values.

Enable the change of product's original values, such as intervals and price per interval for the users of a specific plan.

Check for more info in "Products" section.

Fields:

In the upper panel “Select Products to Override Price”, start typing (auto completion) the product you want to add. Select from the predefined product list. The product will be automatically added to the list.

From: current interval’s step start point - 1st step will always start at 0.

To: current interval’s step endpoint - will use as upper border for each step and the beginning of the next step if exists.

Interval: number of units that will be used for rounding up in each step.

Price Per Interval : each rated unit (rounded interval) in each step will be charged by multiplying by this value.

Add New: will add new step to charge.

Plan Includes tab:

BillRunr [The Company Name] offer

Dashboard Products Prepaid Postpaid Customers Usage Invoices User Management Audit Trail Settings

Edit plan - CAR2GO-SOMETIMES

Details Override Product Price Plan Includes

Groups ?

Name	Unit Type	Include	Products	Shared
EUROPEAN_COU...	call	500	CALL_TO_GERMANY, Call to Europe	No

+ Create New Group

Save Cancel

Usage:

Enable the definition of usage free units.

The defined units are of the same type as through all the process (e.g seconds, bytes, etc.)

A plan can include free units for use by the subscriber (e.g. free 500 seconds to use when dialing to UK, or to Germany, or to any country in europe.

After the units predefined in this tab for a product in a plan will be ended, the product will start behave as appears in the “Override Product Price” tab - if predefined, or will behave as planned originally if not predefined in the “Override Product Price” tab.

The free units in “Plan Includes” can be shared by all subscribers under the same customer.

Fields:

Name: group’s name.

Unit Type: product’s usage / unit type which the products will be grouped into, and will be charged by it.

Include: the amount of free units - from “0” to Unlimited by checking the box.

Products: one or more (N) products that are free of charge, limited by the amount in the **Include**.

Shared: indicates if the group can be shared by the customer’s subscribers (only subscribers with the same plan under the same customer can share the amount in the Include.

How to edit an existing Plan Includes ?

Plan Includes values can be edited by pressing the “Edit” button on the right side of each line in the Plan Includes table.

Edit Plan Includes screen - Filled with the selected Plan Includes data when in edit mode.

What are the fields shown in the Edit Postpaid Plan screen ?

The screenshot shows the 'Edit plan - CAR' screen in the BillRun! application. A modal window titled 'Edit EUROPEAN_COUNTRIES call' is open. The modal contains the following fields and controls:

- Include:** A checkbox labeled 'Unlimited' and a text input field containing '500'.
- Share with all account's subscribers:** A checkbox.
- Products:** Two buttons labeled 'CALL_TO_GERMANY' and 'Call to Europe', each with a close icon. Below them is a dropdown menu labeled 'Add product...'.
- OK:** A blue button at the bottom right of the modal.

The background screen shows a sidebar with navigation options (Dashboard, Products, Prepaid, Postpaid, Plans, Services, Customers, Usage, Invoices, User Management, Audit Trail, Settings) and a main area with tabs for 'Details' and 'Override Product Price'. A table with columns 'Name' and 'Unit Type' is visible, showing a row for 'EUROPEAN_COU...' with unit type 'call'. A 'Create New Group' button is at the bottom left of the main area.

Fields:

Include: the amount of free units - from “0” to Unlimited by checking the box.

Products: one or more (N) products that are free of charge, limited by the amount in the **Include**.

Shared: to make this group of units included potentially shared by the subscribers under a customer.

How can I add a new Plan Includes group ?

Press the “Create New Group” button on the lower left side of the **Plan Includes** tab under Plan Includes table .

Fill up all the fields following the the wizard and press Save.

Step 1 - Set Name:

The screenshot shows the 'Create New Group - HOW_TO_CREATE_A_GROUP' modal in the BillRun! application. The modal has a title bar with a close button. Below the title bar is a progress indicator with four steps: 'Set Name' (active), 'Set Usage Type', 'Set Includes', and 'Set Products'. The main content area has a label 'Name' followed by a text input field containing 'HOW_TO_CREATE_A_GROUP'. At the bottom right of the modal are two buttons: '< Back' and 'Next >'. The background screen is the same as the previous screenshot, showing the 'Edit plan - CAR' screen with the 'Create New Group' button highlighted.

Give a unique name to the group and press the Next button.

Step 2 - Set Usage Type:

Unit Type: call

Name	Unit Type
EUROPEAN_COU...	call

Select a Unit Type from the predefined drop down list and press the Next button. This will help identify the product's usage/unit type.

Step 3 - Set Includes:

Call includes: ☒ Unlimited 500

☐ Share with all account's subscribers

Define the amount of units to be included (free of charge) from “0” to Unlimited.

Check the box if you want this group to be shared by the subscribers that using this plan under a customer.

Step 4 - Set Products:

Products of type call: CALL_TO_UK

Add product...

In the input field, start typing (auto completion) the product you want to add. Select from the predefined product list. The product will be automatically added to the list.

Press Add when done - The new group will be added to the table list.

Press save in the main screen to save the new group to the list of groups.

How can I add new plan ?

Press the “Add New” button on the upper right side of the Postpaid Plans table in the main Postpaid Plans screen.

Fill up all the fields as described in “What is the use of each tab in the Edit Postpaid Plan screen” section, and press Save.

Services

Postpaid Services screen usage

To add services - extra abilities to the subscriber.

Unlike the plans, subscriber can have 1-N services and each service can occur 1-N cycles. It means that a service can be charged only once.

Like the plans, a service can include free of charge units.

Postpaid Services screen fields

Main Postpaid Services screen - Automatically shows a table with all the predefined services.

Title	Key	Price	Cycles
Mobile phone fun tone	FUNTONE		
Recordings	Recordings		
TEST2	TEST2		
Additional GPS service for track	GPS Service	5	1
Backup service addon	BACKUP-STORAGE		
Additional number	DID	5	Unlimited
add multi calls.	Mcalls	40	
TEST SERVICE	TEST SERVICE	10	
Call recording	HighComm-Call recording	34.95	12
Paperless fax	HighComm-Paperless fax	14.95	12

What is the information shown in the Postpaid Services table ?

Title: service’s name - to be presented in the bill.

Key: unique plan’s key - for use by the system - Not editable.

Price: the price for each cycle/occurrence of the service.

Cycles: How many cycles/occurrences this service will be used and charged during the time of use.

How to search for an existing service ?

Services can be found by searching a value in the “Search for...” input field above the Plans table. The value will be searched by a specific field that should be checked in “Search in fields” drop down list button.

Press Enter or the magnifier (search) button to activate the search.

The eraser button next to the magnifier (search) button is for resetting “Search for...” input field.

How to edit an existing service ?

Postpaid Services values can be edited by pressing the pencil on the right side of each line in the services table.

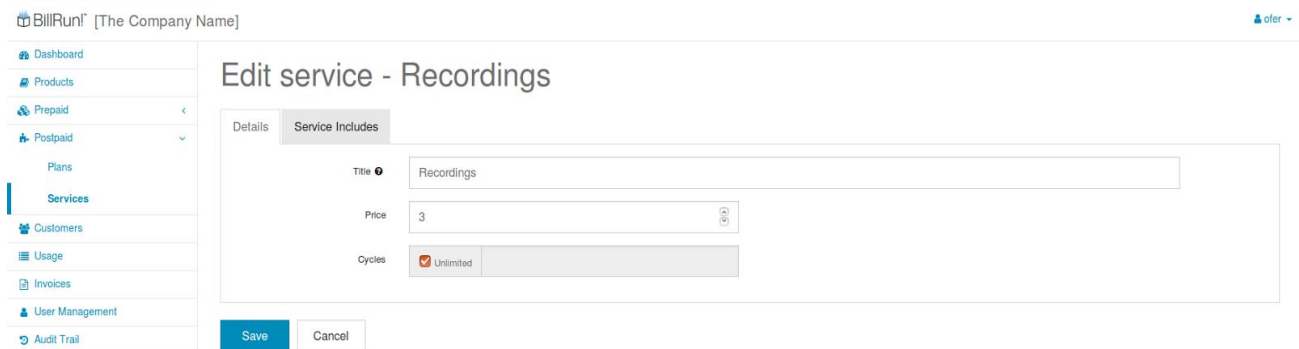
Edit Postpaid Services screen - Filled with the selected services data when in edit mode.

What are the fields shown in the Edit Postpaid Service screen ?

See details below in tabs explain.

What is the use of each tab in the Edit Postpaid service screen ?

Details tab:



Usage:

Edit the Service's name, code and key.

Fields:

Title: service's name - to be presented in the bill.

Key: unique plan's key - for use by the system - Not editable.

Price: the price for each cycle/occurrence of the service.

Cycles: How many cycles/occurrences this service will be used and charged during the time of use.

Service Includes tab:

BillRun! [The Company Name] offer

Dashboard
Products
Prepaid
Postpaid
Plans
Services
Customers
Usage
Invoices
User Management
Audit Trail
Settings

Edit service - Recordings

Details Service Includes

Groups

Name	Unit Type	Include	Products	Shared	
RECORDINGS	call	UNLIMITED	RECORDINGS	No	Edit Remove
NEW	call	100	Call to USA, Call to USA, CALL_TO_GERMANY, Call to Europe	No	Edit Remove

[+ Create New Group](#)

[Save](#) [Cancel](#)

Usage:

Enable the definition of usage free units.

The defined units are of the same type as through all the process (e.g seconds, bytes, etc.)

A service can include free units for use by the subscriber (e.g. free 500 seconds to use when dialing to UK, or to Germany, or to any country in europe.

After the units predefined in this tab for a product in a service will be ended, the product will start behaving as planned originally.

The free units in “Service Includes” can be shared by all subscribers under the same customer.

Fields:

Name: group’s name.

Unit Type: product’s usage / unit type which the products will be grouped into, and will be charged by it.

Include: the amount of free units - from “0” to Unlimited by checking the box.

Products: one or more (N) products that are free of charge, limited by the amount in the **Include**.

Shared: indicates if the group can be shared by the customer’s subscribers (only subscribers with the same service under the same customer can share the amount in the Include.

How to edit an existing Service Includes ?

Service Includes values can be edited by pressing the “Edit” button on the right side of each line in the Service Includes table.

Edit Service Includes screen - Filled with the selected Service Includes data when in edit mode.

What are the fields shown in the Edit Postpaid Service screen ?

BillRun! [The Company Name] offer

Dashboard
Products
Prepaid
Postpaid
Plans
Services
Customers
Usage
Invoices
User Management
Audit Trail
Settings

Edit plan - CAR

Details Override Product Price

Groups

Name	Unit Type
EUROPEAN_COU...	call

[+ Create New Group](#)

[Save](#) [Cancel](#)

Edit EUROPEAN_COUNTRIES call

Include ☐ Unlimited 500

☐ Share with all account's subscribers

Products CALL_TO_GERMANY Call to Europe

[Add product...](#)

[OK](#)

Fields:

Include: the amount of free units - from “0” to Unlimited by checking the box.

Products: one or more (N) products that are free of charge, limited by the amount in the **Include**.

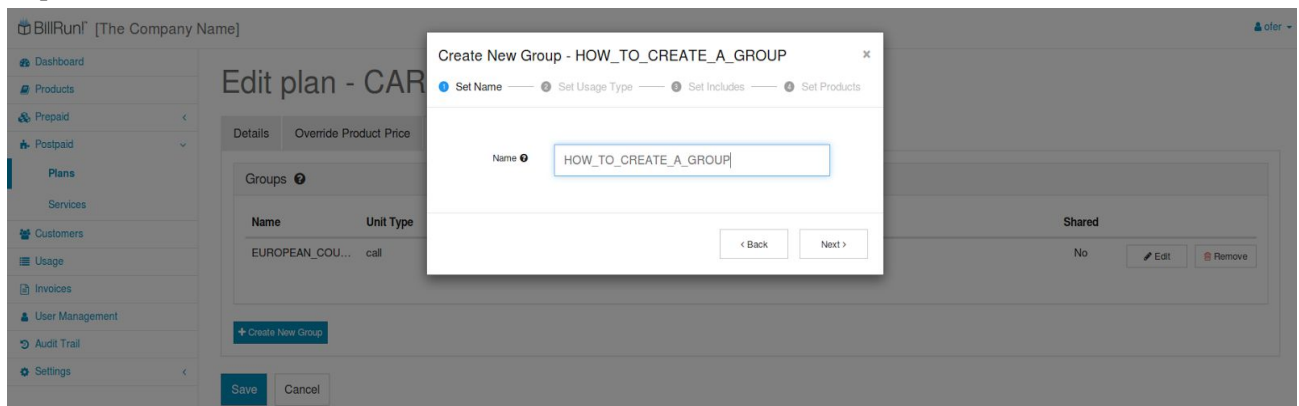
Shared: to make this group of units included potentially shared by the subscribers under a customer.

How can I add a new Plan Includes group ?

Press the “Create New Group” button on the lower left side of the **Service Includes** tab under Service Includes table.

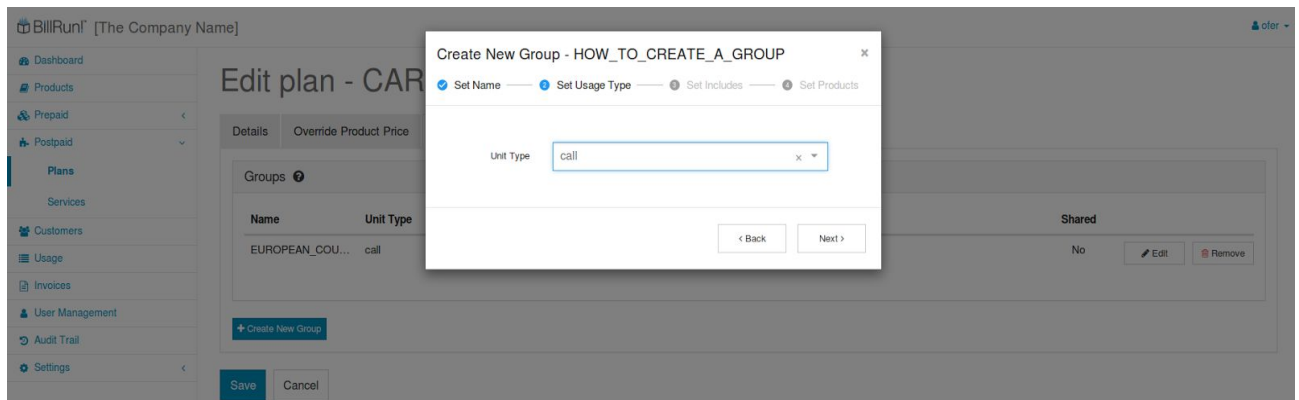
Fill up all the fields following the the wizard and press Save.

Step 1 - Set Name:

The screenshot shows the 'Create New Group' wizard in the BillRun! application. The wizard has four steps: Set Name, Set Usage Type, Set Includes, and Set Products. The first step, 'Set Name', is active. The 'Name' field contains the text 'HOW_TO_CREATE_A_GROUP'. Below the field are 'Back' and 'Next' buttons. The background shows the 'Edit plan - CAR' interface with a sidebar menu and a table of groups.

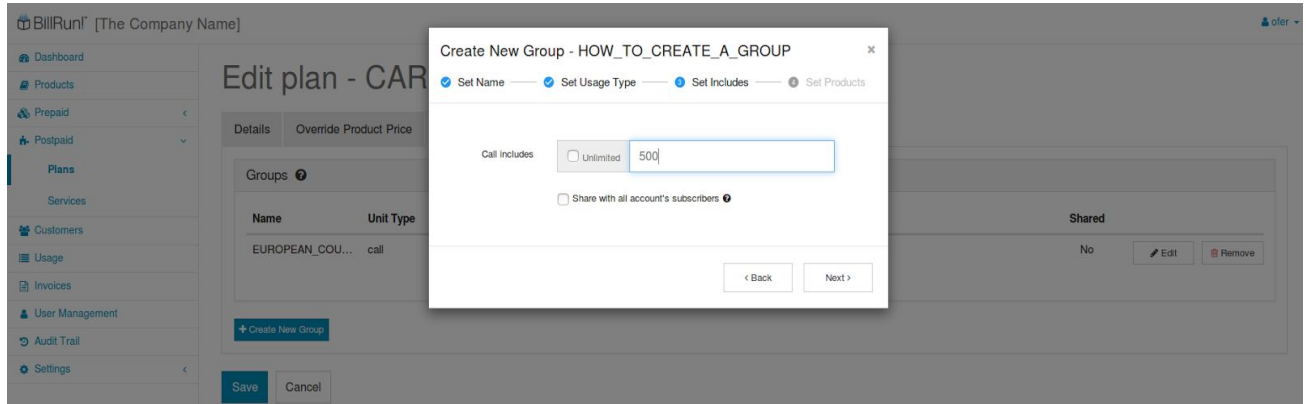
Give a unique name to the group and press the Next button.

Step 2 - Set Usage Type:

The screenshot shows the 'Create New Group' wizard in the BillRun! application. The second step, 'Set Usage Type', is active. The 'Unit Type' dropdown menu is open, showing the selected value 'call'. Below the dropdown are 'Back' and 'Next' buttons. The background shows the 'Edit plan - CAR' interface with a sidebar menu and a table of groups.

Select a Unit Type from the predefined drop down list and press the Next button. This will help identify the product’s usage/unit type.

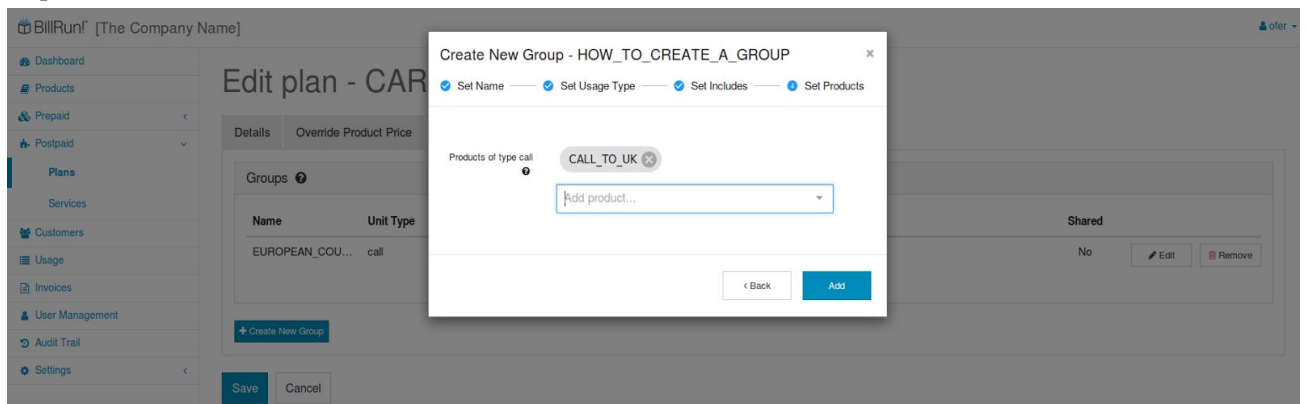
Step 3 - Set Includes:



Define the amount of units to be included (free of charge) from “0” to Unlimited.

Check the box if you want this group to be shared by the subscribers that using this plan under a customer.

Step 4 - Set Products:



In the input field, start typing (auto completion) the product you want to add. Select from the predefined product list. The product will be automatically added to the list.

Press Add when done - The new group will be added to the table list.

Press save in the main screen to save the new group to the list of groups.

How can I add new service ?

Press the “Add New” button on the upper right side of the Postpaid Services table in the main Postpaid Services screen.

Fill up all the fields as described in “What is the use of each tab in the Edit Postpaid service screen” section, and press Save.

Settings

General Setting

General Settings Usage

To define General company information and other attributes.

General Settings Fields

What is the use of each tab in the General Settings screen ?

Company tab:

The screenshot shows the 'General Settings' screen for 'The Company Name' in the BillRunr application. The left sidebar contains a menu with options: Dashboard, Products, Prepaid, Postpaid, Customers, Usage, Invoices, User Management, Audit Trail, and Settings. The 'Settings' menu is expanded, showing 'General Settings' (selected), Input Processors, Export Generators, Payment Gateways, Collections, Invoice Template, and Custom Fields. The main content area is titled 'General Settings' and has four tabs: 'Company' (selected), 'Locale', 'Menu', and 'Security'. Under the 'Company' tab, there is a 'Company Details' section with the following fields: Name (The Company Name), Address (X avenue NY), Phone (+1-899-1234433), Email (somey@xcomp.com), Website (http://xcomp.com), and Logo (Browse... No file selected). A 'Save' button is located at the bottom left of the form.

Usage:

General company's information to be shown on the bill and for identifying.

Fields:

Name: company's name.

Address: company's address.

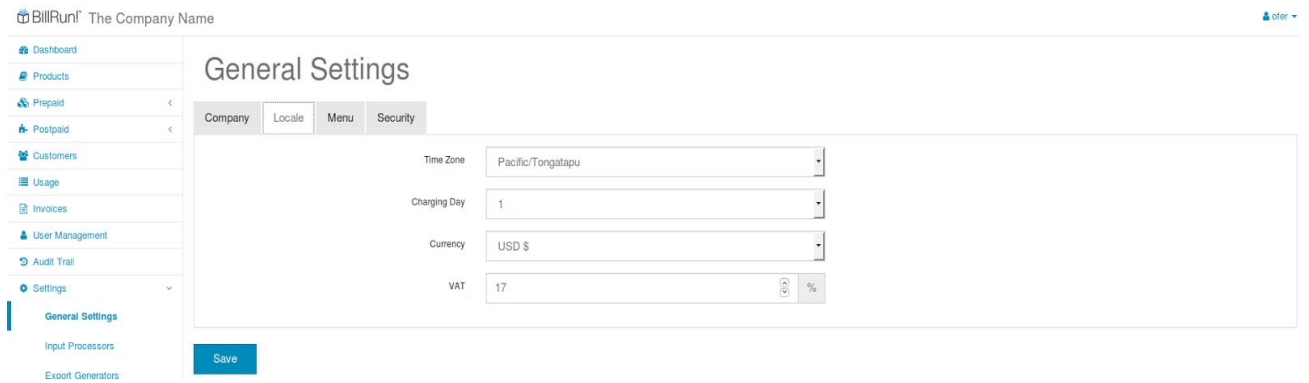
Phone: company's phone number.

Email: company's email.

Website: company's website.

Logo: company's logo.

Locale tab:



The screenshot shows the 'General Settings' page with the 'Locale' tab selected. The left sidebar contains a navigation menu with items like Dashboard, Products, Prepaid, Postpaid, Customers, Usage, Invoices, User Management, Audit Trail, and Settings. The 'Settings' menu is expanded, showing 'General Settings' (selected), 'Input Processors', and 'Export Generators'. The main content area has tabs for 'Company', 'Locale', 'Menu', and 'Security'. The 'Locale' tab contains the following fields:

Field	Value
Time Zone	Pacific/Tongatapu
Charging Day	1
Currency	USD \$
VAT	17 %

A 'Save' button is located at the bottom left of the form.

Usage:

General definitions.

Fields:

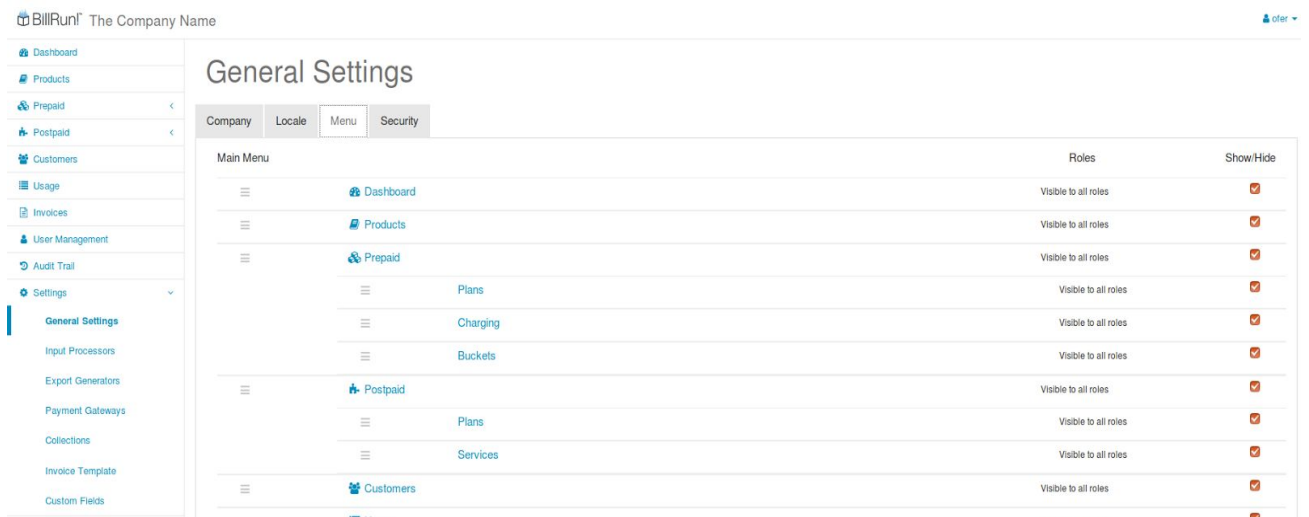
Time Zone: company's Time Zone.

Charging Day: bill cycle day. In this day every month - the billing cycle will run and create a bill to the customer.

Currency: currency to be used.

VAT: the tax added on the prices.

Menu tab:



The screenshot shows the 'General Settings' page with the 'Menu' tab selected. The left sidebar is the same as in the previous screenshot. The main content area has tabs for 'Company', 'Locale', 'Menu', and 'Security'. The 'Menu' tab displays a table for configuring the main menu items.

Main Menu	Roles	Show/Hide
Dashboard	Visible to all roles	<input checked="" type="checkbox"/>
Products	Visible to all roles	<input checked="" type="checkbox"/>
Prepaid	Visible to all roles	<input checked="" type="checkbox"/>
Plans	Visible to all roles	<input checked="" type="checkbox"/>
Charging	Visible to all roles	<input checked="" type="checkbox"/>
Buckets	Visible to all roles	<input checked="" type="checkbox"/>
Postpaid	Visible to all roles	<input checked="" type="checkbox"/>
Plans	Visible to all roles	<input checked="" type="checkbox"/>
Services	Visible to all roles	<input checked="" type="checkbox"/>
Customers	Visible to all roles	<input checked="" type="checkbox"/>

Usage:

To edit the visibility and permissions of the main menu.

Security tab:

The screenshot shows the BillRun interface with the 'General Settings' page. The left sidebar lists various settings categories, with 'Settings' expanded to show 'General Settings'. The main content area is titled 'General Settings' and has tabs for 'Company', 'Locale', 'Menu', and 'Security'. The 'Security' tab is active, showing a 'Security' section with a 'Secret Key' field containing the value 'secretsecret1234'. A 'Save' button is located at the bottom right of the settings area.

Usage:

This code is automatically generated upon the account/tenant creation.

You should keep it **secret** and not share it with anyone else.

The transaction/request initiator uses this key to sign the data that he sent to BillRun.

This way BillRun identifies the company/tenant when external API calls are made.

Input Processors

Input Processors Usage

To define all the input file's / API requests' structures, related and required information.

Input Processors Fields

Main Input Processors screen - Automatically shows a table with all the predefined input processors.

The screenshot shows the BillRun interface with the 'Input Processors' page. The left sidebar lists various settings categories, with 'Settings' expanded to show 'Input Processors'. The main content area is titled 'Input Processors' and shows a table of 'All available input processors'.

Name
Asterisk_CDR_Demo
UK_Standard_CDR_v3
Asterisk_CDR23
lghlg
test123
HighComm
Test Record

What is the information shown in the Input Processors table ?

Name: Input Processor's name.

How to edit an existing input processor ?

Input Processors values can be edited by pressing the pencil on the right side of each line in the Input Processors table.

Edit Input Processors screen - Filled with the selected Input Processor's data when in edit mode.

My Company

Dashboard Products Prepaid Postpaid Customers Usage Invoices User Management Audit Trail Settings

General Settings

Input Processors

Export Generators

Payment Gateways

Collection

Invoice Template

Custom Fields

Edit Input Processor - Asterisk_CDR_Demo

CDR Fields Field Mapping Calculator Mapping Receiver

Name → Asterisk_CDR_Demo

Delimiter → ☒ By delimiter ☐ Fixed width

Select Sample CSV → No file selected.

Notice: Spaces will be converted to underscores

CDR Fields

Field name

accountcode	<input type="button" value="Move up"/>	<input type="button" value="Move down"/>	<input type="button" value="Remove"/>
src	<input type="button" value="Move up"/>	<input type="button" value="Move down"/>	<input type="button" value="Remove"/>
dst	<input type="button" value="Move up"/>	<input type="button" value="Move down"/>	<input type="button" value="Remove"/>
dcontext	<input type="button" value="Move up"/>	<input type="button" value="Move down"/>	<input type="button" value="Remove"/>
clid	<input type="button" value="Move up"/>	<input type="button" value="Move down"/>	<input type="button" value="Remove"/>
channel	<input type="button" value="Move up"/>	<input type="button" value="Move down"/>	<input type="button" value="Remove"/>

Bottom of the same screen:

Invoice Template

Custom Fields

amaflags	<input type="button" value="Move up"/>	<input type="button" value="Move down"/>	<input type="button" value="Remove"/>
userfield	<input type="button" value="Move up"/>	<input type="button" value="Move down"/>	<input type="button" value="Remove"/>
uniqueid	<input type="button" value="Move up"/>	<input type="button" value="Move down"/>	<input type="button" value="Remove"/>

Best way to learn how to edit input processor is first of all create a new input processor.

How can I add a new input processor ?

Press the “Add New” button on the upper right side of the Input Processors table in the main Input Processors screen.

Follow the instructions.

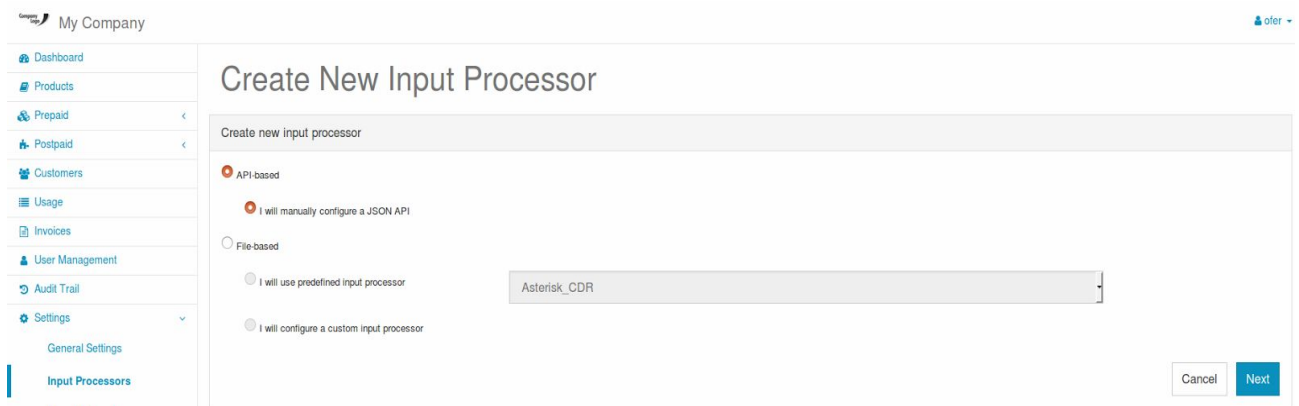
Input Processor Wizard

Wizard's initialization

Choose the method you prefer to transfer your billable usage data to the system - through API-based for real time (also Pre-paid) billing, or File-based for batch billing.

Both, the API-based and File-based methods will lead you through the same configuration path windows when the differences will be in the way that BillRun will receive and process the input information, and is going to be described in the following steps.

API-based method



Usage:

Using for real-time measurable ongoing usage billing - mainly prepaid customers (but not limited to).

Prepaid subscribers:

Records will be sent by BillRun's client to BillRun before the beginning of an activity in order to check if there is an available balance and receive confirmation (permission) to start the activity, and before any part (during) of the activity, in order to request further usage allowance to continue the activity.

Postaid subscribers:

Records will be sent by BillRun's client to BillRun at the end or after any part (during) of the activity, applying BillRun with the usage information about the activity AFTER it took place, without the need to request any usage allowance at any stage of the activity. The entire activity duration and process is managed by the BillRun's client.

Usage:

Define the input structure in JSON format, either by uploading the structure from a file by using the “Browse...” button (will be available after filling the structure name - mandatory), or adding the fields manually, or both.

Fields:

General

Name: Mandatory unique name for the input processor.

Select Sample JSON: Optional. Will be available after filling the “Name” field. Enable uploading a predefined JSON structure instead of manual definition.

CDR Fields

Add Field: Each press on the button will add new field to the manually configured structure. In case a JSON structure was previously uploaded, the new field(s) will be added to the existing ones at the end of the structure. The field name have to be in lowercase and separated by underscore. Field names have to be unique.

Move up: To place the current field (the same line of the button) in other position in the structure in case of input changes without needing new definitions.

Move down: To place the current field (the same line of the button) in other position in the structure in case of input changes without needing new definitions.

Remove: To remove the current field (the same line of the button) from the structure in case of input changes without needing new definitions.

Wizard's 2nd stage - Field Mapping

Usage:

Identify and map important fields that will be used by the billing process.

Fields:

Date Time: The input field that holds the date and time of the call and is used by BillRun for the billing process (e.g find available subscribers, plans and products for this date and time in the DataBase). It will also be presented in the invoice.

It can be the start or the answer date and time.

In case there are separated fields for date and time, the first dropdown field will map the date, and after checking the “Time in separate field” the other dropdown field will be available map the time. BillRun will concatenate both fields.

Volume: The input field that holds the total amount of usage to be billed - by duration, volume, kg, km, distance etc.

Usage types: Usually mapped by field called “record type”.

It refers to the Usage/Activity/Unit of the input record/transaction (e.g: call/data/sms/km/cm/kg/incoming call/queue etc.). This field should help distinguish between activities and charge differently for each activity.

If there is only one record type available, it is mostly common to use the “Static” option, and then add an activity (e.g. call). If an activity doesn't exist, it can be added easily by typing the activity name and then press “Add”.

If there are several record types available, the “Dynamic” option should be selected.

There are two columns:

The left one - Input Value: This is the value that appears on the incoming record.

The right one - Usage Type: Value that will be used on the next step for the rating part - correlate each activity to its subscriber by the information on the input record and to correlate each activity to its product by building a key that will be correlated to a product.

If an activity doesn't exist, it can be added easily by typing the activity name and then press "Add". After adding an activity press the "Add Mapping" in order to map the next activity. If "Add Mapping" was not pressed, the activity will not be saved when moving to the next stage.

Wizard's 3rd stage - Calculator Mapping

BillRun My Company

Dashboard Products Prepaid Postpaid Customers Usage Invoices User Management Audit Trail Settings

General Settings Input Processors Export Generators Payment Gateways Collection Invoice Template Custom Fields

Edit Input Processor - JSON_test

CDR Fields Field Mapping Calculator Mapping Realtime Mapping

Customer identification | Map customer identification field in record to Billrun field

call → previously_defined_source internal_sid

internal_call → previously_defined_source internal_sid

Rate by

call → previously_defined_destin

☐ By product key ☐ By product unit type ☒ By longest prefix ☐ By product param ?

incoming_call → previously_defined_source

☐ By product key ☐ By product unit type ☒ By longest prefix ☐ By product param ?

Cancel Back Next

Usage:

This stage is the Rating Calculator mappings.

The values in this stage enabling the correlation between the subscriber and it's activity that appears on the cdr to the subscriber and the product/rate that appears in BillRun billing system.

Fields:

Customer Identification

To identify the Subscriber (and consequently the customer) by the relevant value on the input record for any activity.

Each activity defined in the previous stage will appear at this stage, in order to correlate during the process between the Subscriber on the input record to the Subscriber in the BillRun system, by mapping the input field that holds the value of the Subscriber in each activity to predefined internal value.

This predefined value will be mapped internally by the system to a system sid (Subscriber ID) that is connected to aid (Account ID).

Since it's a unique value and a key in the billing system, the SID on the input record has to be a unique value identifier.

For example in the above screenshot:

In “call” activity, which is a regular outgoing call, the “previously defined_source” (cid) will hold the unique Subscriber ID.

In “incoming_call” activity, which is a regular incoming call, the “previously defined_destination” (cld) will hold the unique Subscriber ID.

Rate by

To identify the product that will be used to charge any individual activity (usage).

For any activity, there are four options to identify and match a product (rate) by the value on the input record, and there can be a combination between the identifiers for each activity in order to identify and match a product (rate).

For example in the above screenshot:

In “call” activity, which is a regular outgoing call, the “previously defined_destination” (cld) will hold the destination number which will be used to identify the relevant product (rate). In case of regular dialing, the prefix of the dialled (or called) number will be found by best match (longest prefix) in the Products list.

In “incoming_call” activity, which is a regular incoming call, the “previously defined_source” (cid) will hold the originating number which will be used to identify the relevant product (rate) - if there is a charge for incoming calls. In case of regular incoming call, the prefix of the calling (or source) number will be found by best match (longest prefix) in the Products list.

Creating a combination of conditions for an activity can be done by pressing the “Add” in each activity section.

For example: Identifying the destination prefix best match, only for specific products (by product key).

It means that two different fields on the input record will be used to perfectly match a Product to the specific record.

There are two Real-time mapping options

One time charge requests:

Will be used for Postpaid - real time transactions will announce the BillRun system that the activity has just ended, and supply the relevant information as described above to charge the activity.

Most fields will be disabled, except “Request type pretend field”.

Request type pretend field - If chosen and the field value will be “true” - the transaction will be treated as a trial/test/check (test/check availability of service) and won’t be charged.

Allocation based requests:

Will be used for Prepaid - real time transactions will check for service availability according to relevant balance existence (Buckets) in the BillRun system, and will request an allocation for the continuity of the service for the activity in use (call, data, etc.).

Usually a Real-time prepaid activity composed from more than one transaction:

Initial Request - the request that initiate the activity. The 1st usage allocation. If there **IS** a balance in the relevant Bucket for the activity, the activity will start at this point with the predefined allowance answer to the request. If there **IS NO** balance in the relevant Bucket for the activity, a negative answer will be sent back to the request, and the originator will not allow the establishment of the activity/session.

Update Request - the continuation of an activity depends on an ongoing requests for renewing the allowance by new allocation request. Each time, before the previous allowance is about to end, a request for a new allowance will be sent. If there **IS** a balance in the relevant Bucket for the activity, the activity will continue, otherwise, a negative answer will be sent back to the request and the activity/session will end by the originator. It **should** contain the information for rebalance if needed.

Final Request - this transaction will end the activity/session. In addition to the regular information on the transactions, it **should** contain the information for rebalance if needed (in cases when not all the allowance was used by the subscriber when he ended the activity/session).

Required Fields:

Request type field: indicates the type of the request as mentioned above (Initial Request = 1; Update Request = 2; Final Request = 3).

Request type pretend field: if chosen and the field value will be “true” - the transaction will be treated as a trial/test/check (test/check availability of service) and won’t be charged.

Rebalance field: by this field, BillRun makes calculation for the real usage. Example: the subscriber was given an allowance of 10M for the browsing request, and when the system came back to request another allowance (current session ran out of time before ended the data) the subscriber used only 5M - the 5M will appear in this field so BillRun will be able to recalculate (rebalance) the subscriber’s balance in the relevant Bucket and return 5M to his Bucket’s balance (10M-5M=5M).

Group requests fields: key to identify all the transactions that belong to the same activity/session. Can contain one or more fields.

Optional Fields:

If one of the fields below will hold a value, BillRun will use the value. Otherwise BillRun will use the “Default” value in the last field.

The value uses the same units as used all over and appears in the duration/volume field.

Initial request: the maximum allowance that will be given to the subscriber for initiation. If the relevant Bucket’s balance is lower - it will be given as is.

Update request: the maximum allowance that will be given to the subscriber for ongoing usage (continuation of an activity/session). If the relevant Bucket’s balance is lower - it will be given as is.

Final request: the maximum allowance that will be given to the subscriber for finalizing an activity/session (will be 0 most of the times). Activities, usually comes with a value in the “Rebalance Field” at this stage, after knowing all the duration/volume of the activity/session.

Default: if one of the fields above will hold a value, BillRun will use the value. Otherwise BillRun will use the “Default” value in this field.

File-based method

My Company

Dashboard
Products
Prepaid
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User Management
Audit Trail
Settings
General Settings
Input Processors

Create New Input Processor

Create new input processor

☐ API-based

☒ I will manually configure a JSON API

☒ File-based

☐ I will use predefined input processor

☐ I will configure a custom input processor

Asterisk_CDR

Cancel Next

My Company

Dashboard
Products
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Create New Input Processor

Create new input processor

☐ API-based

☒ I will manually configure a JSON API

☒ File-based

☐ I will use predefined input processor

☐ I will configure a custom input processor

Asterisk_CDR

Cancel Next

Usage:

Using for batch measurable ongoing usage billing.

When immediate billing is not needed, and billable usage is gathered once in awhile and then being transferred to BillRun as a file for batch processing.

There are two options for file based:

- I will use predefined input processor - enables choosing from a predefined template of known input structure.
- I will configure a custom input processor - enables configuring a brand new input structures and his behaviours.

Both, the API-based and File-based method will lead you through the same configuration path windows when the differences will be as mentioned above and on the Receiver configuration wizard - the way BillRun will receive and process the input information.

Wizard's 1st stage - CDR-Fields

When choosing the option: “I will configure a custom input processor”

By delimiter

Usage:

Define the input structure in delimited (e.g. CSV) file format, either by uploading the structure from a file by using the “Browse...” button (will be available after filling the structure name - mandatory, choosing the “By delimiter” option and adding the delimiter type), or adding the fields manually, or both.

Fields:

General

Name: Mandatory unique name for the input processor.

Delimiter: Choose if the file field delimited and add the delimiter type.

Select Sample CSV: Optional. Will be available after filling the “Name” and “Delimiter” fields. Enable uploading a predefined delimited field file structure instead of manual definition.

CDR Fields

Add Field: Each press on the button will add new field to the manually configured structure. In case a CSV file was previously uploaded, the new field(s) will be added to the existing ones at the end of the structure. The field name have to be in lowercase and separated by underscore. Field names have to be unique.

Move up: To place the current field (the same line of the button) in other position in the structure in case of input changes without needing new definitions.

Move down: To place the current field (the same line of the button) in other position in the structure in case of input changes without needing new definitions.

Remove: To remove the current field (the same line of the button) from the structure in case of input changes without needing new definitions.

Fixed width

BillRun My Company

Create New Input Processor

1 CDR Fields 2 Field Mapping 3 Calculator Mapping 4 Receiver

Name → FIXED_WIDTH_test

Delimiter → ☐ By delimiter ☒ Fixed width

Select Sample CSV → Browse... No file selected.
Notice: Spaces will be converted to underscores

Field name	Width	
fixed_width_field_1	10	Move up Move down Remove
fixed_width_field_2	4	Move up Move down Remove
fixed_width_field_3	7	Move up Move down Remove

+ Add Field

Cancel Next

Usage:

Define the input structure in fixed length format. This options will allow only manual configuration on the input file structure.

Fields:

General

Name: Mandatory unique name for the input processor.

Delimiter: Will remain unmarked.

Fixed width: Should be marked.

CDR Fields

Add Field: Each press on the button will add new field to the manually configured structure. Each field should have a static length. The field name have to be in lowercase and separated by underscore. Field names have to be unique.

Move up: To place the current field (the same line of the button) in other position in the structure in case of input changes without needing new definitions.

Move down: To place the current field (the same line of the button) in other position in the structure in case of input changes without needing new definitions.

Remove: To remove the current field (the same line of the button) from the structure in case of input changes without needing new definitions.

When choosing the option: “I will use predefined input processor”

All next steps that mentioned above are predefined and should only be updated in specific cases.