

Credit & Data Usage App

(including Credit & Data Modules)

Credit and Data Modules

Prior Document Revisions

name	version	date	notes
Rafael Rebolleda	1	Jun 15 2012	Quick mock up to get the conversation going
Rafael Rebolleda	2	Jul 19 2012	Full Spec
Marco Cimatti	3	Jul 30 2012	Top Up flow update after talking with the devs More explicit info about roaming situations, refresh errors, data module text updated. First time use scenario added Credit and data module settings area added. Low balance and No Balance

Credit and Data Usage App

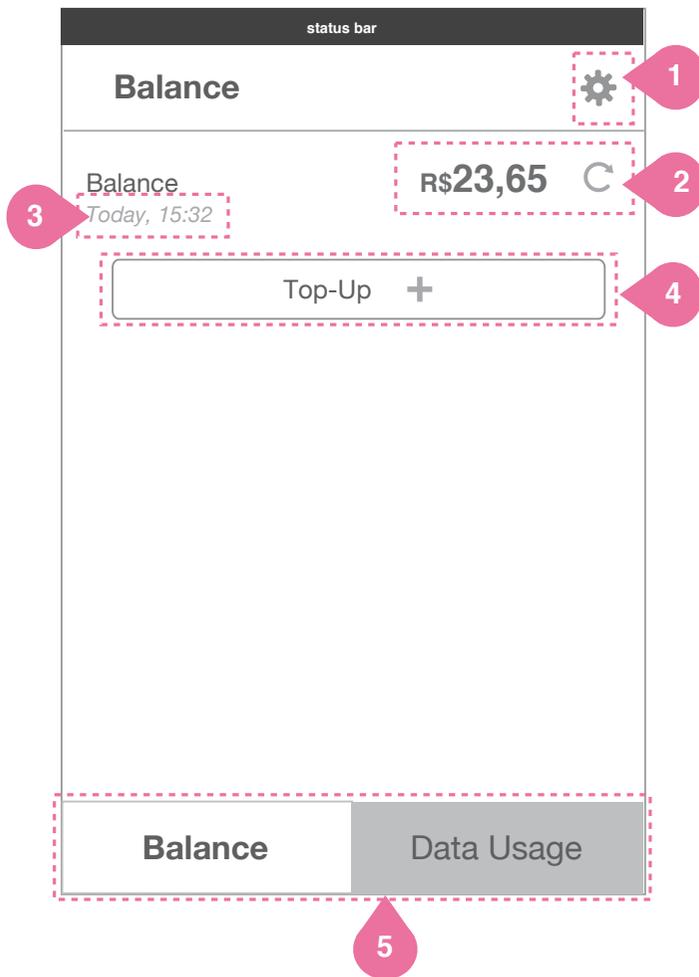
Document Revisions

name	version	date	notes
Rafael Rebolleda	1	Jul10 2012	Recap based on Marco's and Ayman's work.
Rafael Rebolleda	2	Jul 12 2012	IA rework
Rafael Rebolleda	3	Jul 13 2012	Expanding on current ideas.
Rafael Rebolleda	4	Jul 13 2012	Refined IA controls
Rafael Rebolleda	5	Jul 17 2012	Better toggling of limits and warnings Interface toggle acts upon the graph *and* the list below Tethering demoted. Now displays in the list like any other app Graph labeling Better WiFi toggles in app break-down list Change document name to "Data Usage" instead of "Document Management"
Marco Cimatti	6	Jul 30 2012	Revised features based on review with FE devs on V1 feasibility Created appendix with V2 features IA refinement Detailed variety of graph states based on limits and alerts and filters Detailed coordination of Data Usage graph states with Data Module states
Marco Cimatti	7	Aug 6 2012	Single document created with Credit and Data Module. App approach revised UI on main screens, first time use, settings area, and credit module in postpaid scenario. Top-up flow revised

main app screens

Balance Details

Overview - Prepaid view

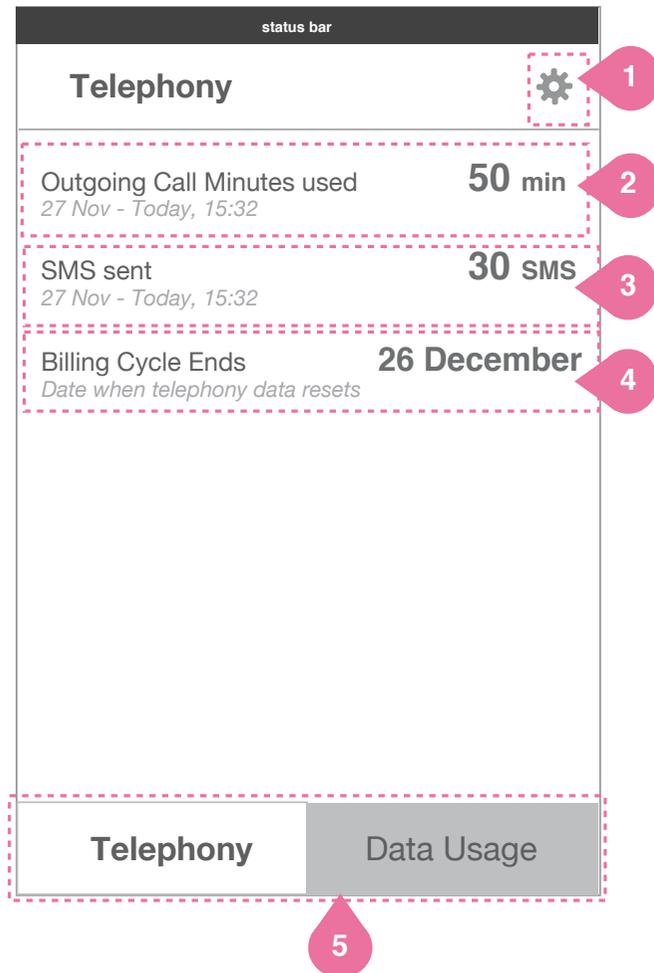


Details

- 1 Settings**
Tap to access settings area of app.
- 2 Balance and Refresh wheel**
This Balance should be updated so that it appears exactly as Credit Module. Refresh wheel does not disappear, and acts as a button to allows user to perform a manual refresh when tapped.
- 3 Timestamp**
Timestamp shows the time of the last successful refresh of the credit counter.
- 4 Top-Up (use a top-up icon here)**
Tapping on the Top-Up button starts the top-up flow detailed later in document.
- 5 Balance/Telephony and Data Usage Tabs**
Switches view to Data Usage information.

Telephony Details

Overview - Postpaid view



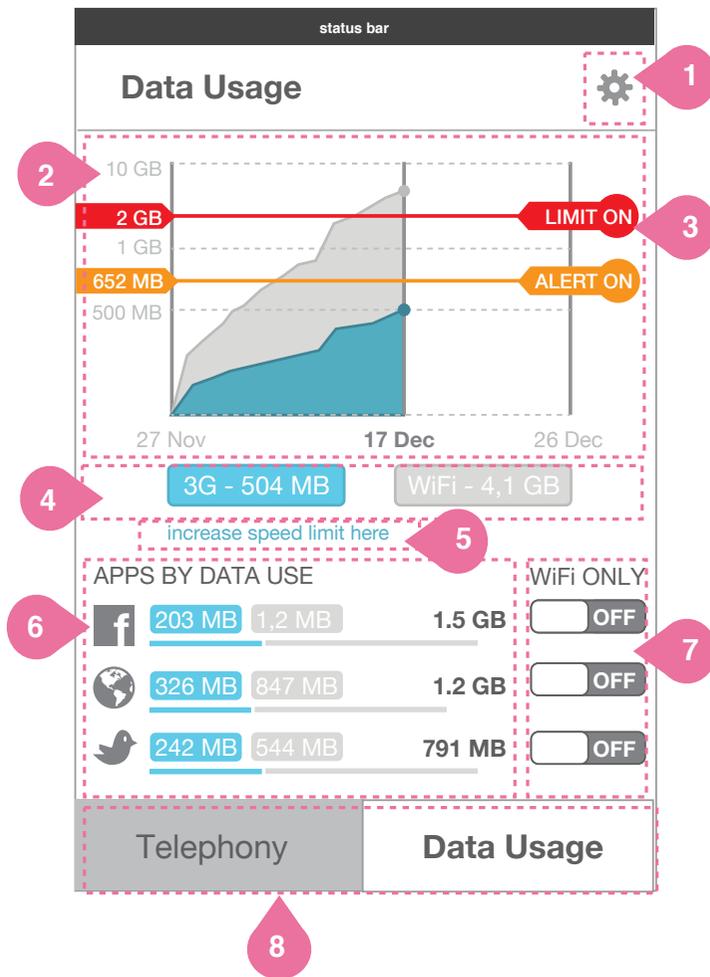
Details

- 1 Settings**
Tap to access settings area of app.
- 2 Outgoing Call Minutes**
Counts total outgoing call minutes from beginning of billing period to current date.

This counter resets at the end of the billing cycle set by user.
- 3 SMS sent**
Counts total SMS messages sent from beginning of billing period to current date.

This counter resets at the end of the billing cycle set by user.
- 4 Billing Cycle End**
States the end of the user's billing cycle.
- 5 Balance/Telephony and Data Usage Tabs**
Switches view to Data Usage information.

Data Usage Overview

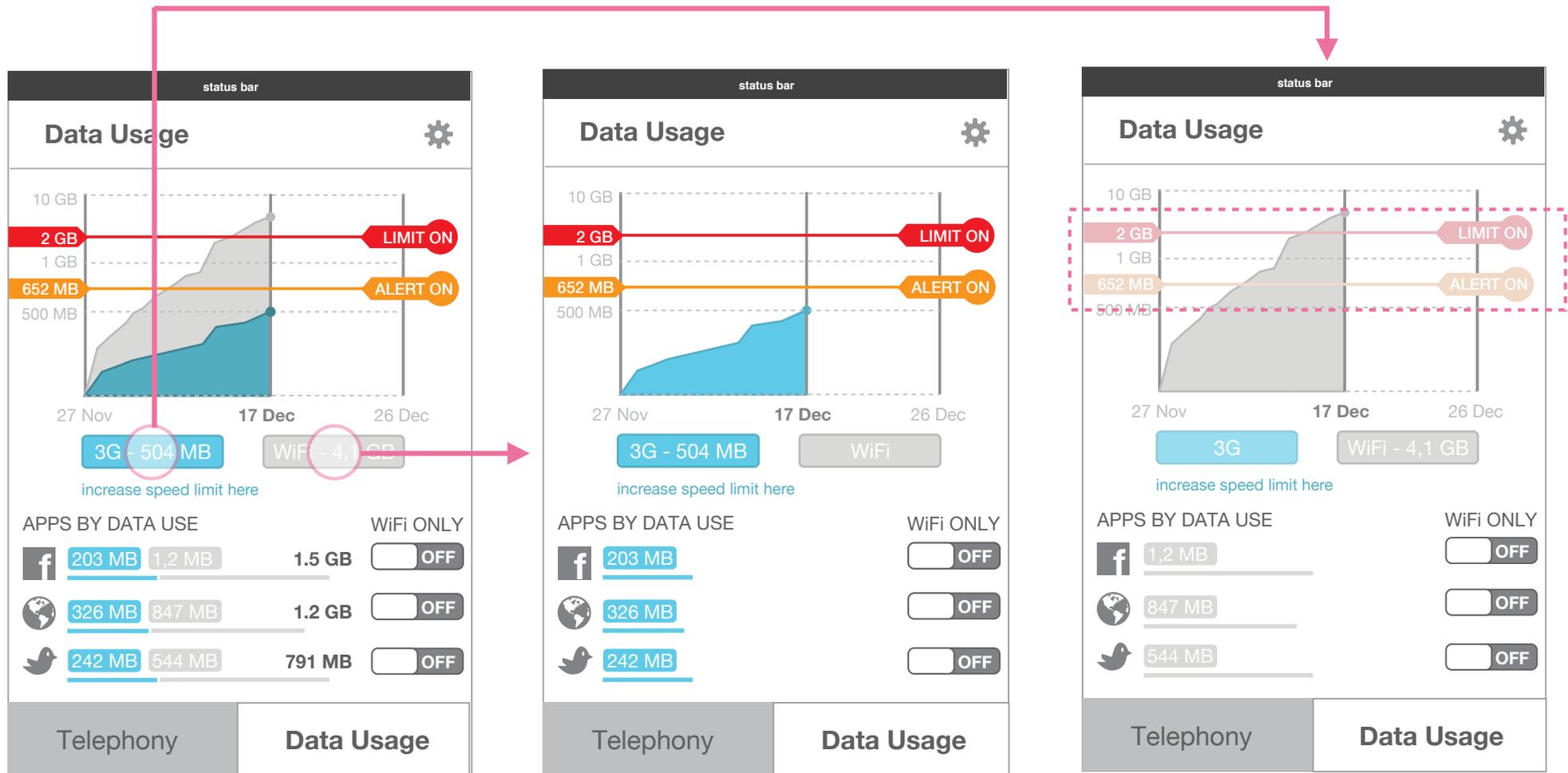


Details

- 1 Settings**
Tap to access settings area of app.
- 2 Graph**
Graph displays data in time period set and Data Toggles selected. Graph will scale and adjust automatically with adjustment of limits and/or alerts. Data resets at the end of Usage Cycle set.
- 3 Limit & Alert**
Limit and Alert can be turned on or off in settings area. When on, they affect the state of the Graph and Data Module in Utility Tray.
- 4 Data Toggles**
Tap to toggles to display or hide data type. Toggles that are off are not displayed in the chart are dimmed out. These toggles affects both the graph and the App Data List.
- 5 Increase Speed Limit link**
Link to Vivo site for purchasing a higher limit for high speed data.
- 6 App Data Use List**
All data displayed in the list corresponds to the selected range and interfaces. Apps ordered by total data consumption. The longest bar defined by the app with biggest data usage in selected interface(s) and date range. Total only displayed when multiple are selected.
- 7 App Connection Management**
Apps can be set to using Wifi only. Default is OFF,
- 8 Balance/Telephony and Data Usage Tabs**
Switches view to Balance or Telephony information.

Data Usage

Data Toggles



All toggles ON

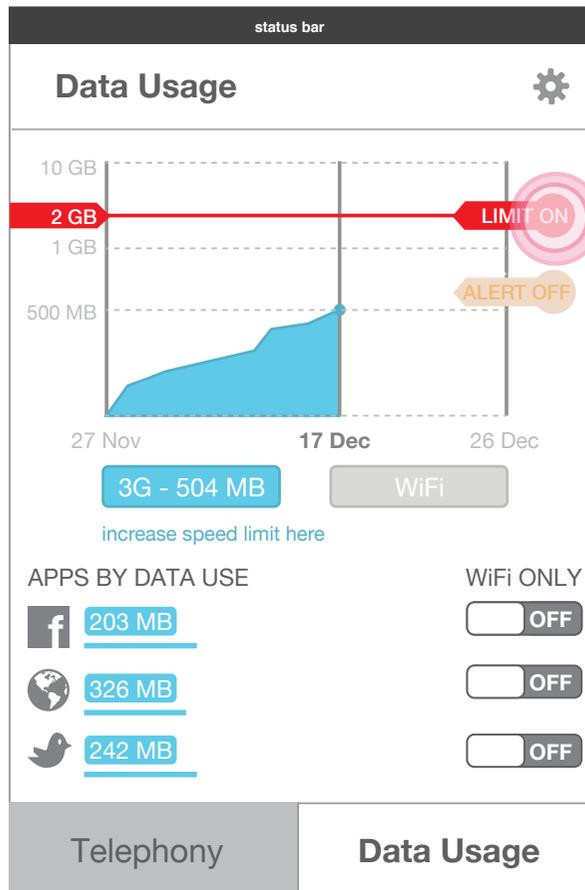
Tap one of the two data toggles to turn ON/OFF data visibility for each in graph and in app list.

WiFi toggle OFF / 3G toggle ON

3G toggle OFF / WiFi toggle ON

If 3G is off: Limits and Alerts are greyed out and cannot be tapped to change settings.

Data Usage Limit & Alert Adjustment



Limit adjusted by tap and hold

If a Limit or Alert is turned on, it can be adjusted via Tap and hold on tab.

The screenshot shows the 'Data Usage Limit' screen. At the top, there are 'cancel' and 'done' buttons. The title is 'Data Usage Limit'. Below the title, it says 'enter a mobile data usage limit' and provides a warning: 'Connection speed reduces after limit. It will be used as a reference to check against actual mobile data usage.' A numeric keypad is displayed with the number '2' entered. A red dashed box highlights the 'GB' unit button, which is also circled with a red '1'. The keypad includes buttons for digits 1-9, 0, a 'clear' button, and a back arrow with an 'x'.

Limit adjusted by keypad

A keypad appears on top of Data Usage temporarily to set limit by typing in.

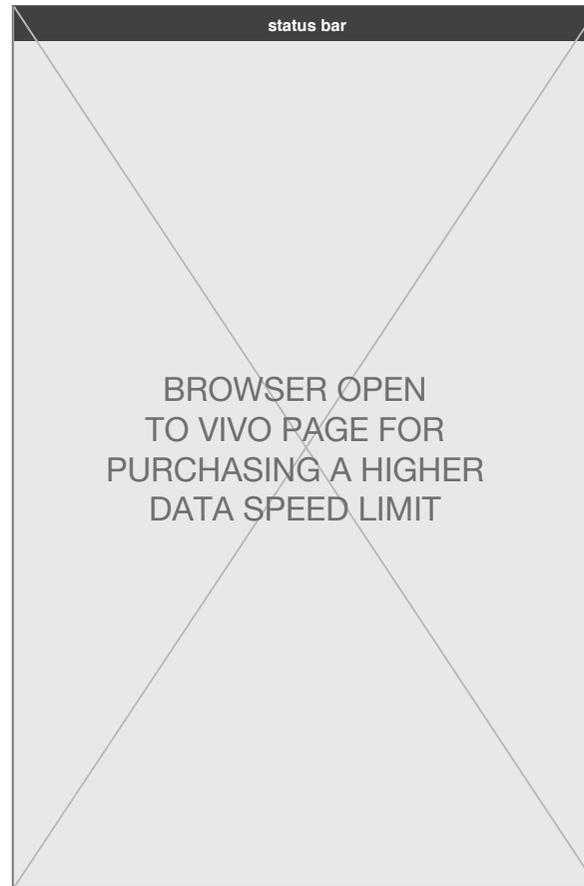
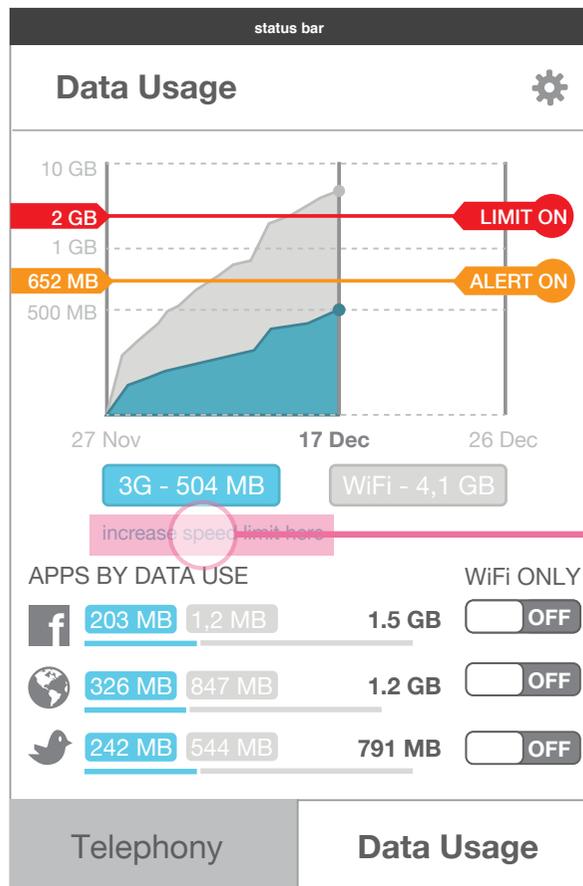
Details

1 **GB/MB**
Tap button to switch between MB and GB setting.

1

Data Usage

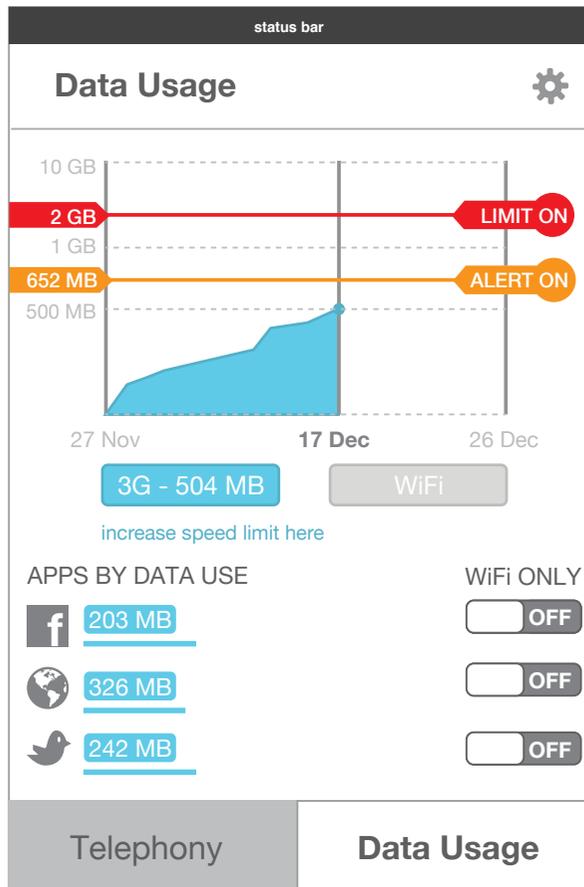
Increased Speed link



Increase Limit link

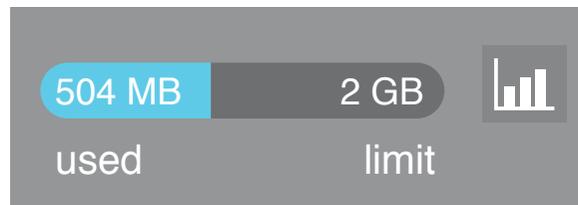
Tap link to open browser and view of Vivo site that allows user to increase connection speed limit.

Data Usage Limit & Alert Behaviors



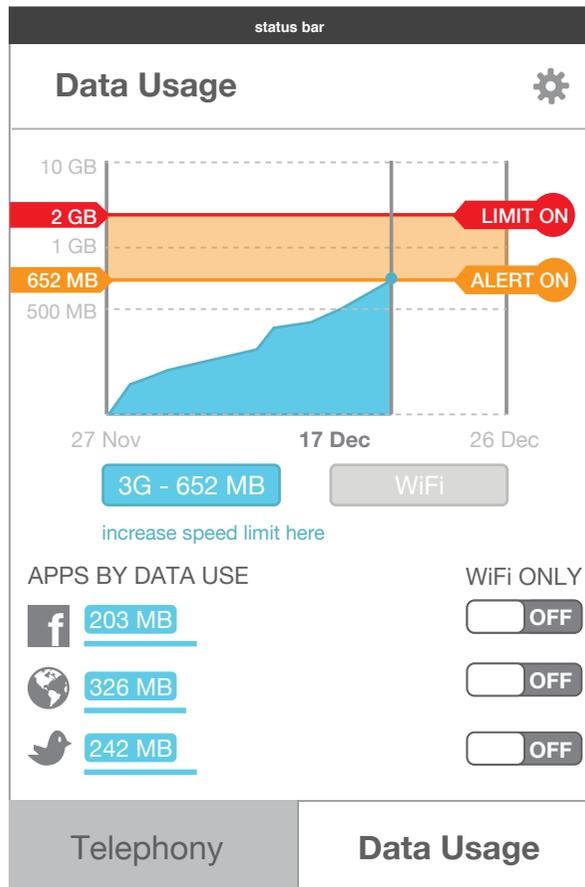
Data Usage below alert set

When 3G data is below amount of alert, it maintains a color that is reflected also in the Data Module in Notification Center.



Data Module with usage below alert

Data Usage Limit & Alert Behaviors



Data Usage below at alert set

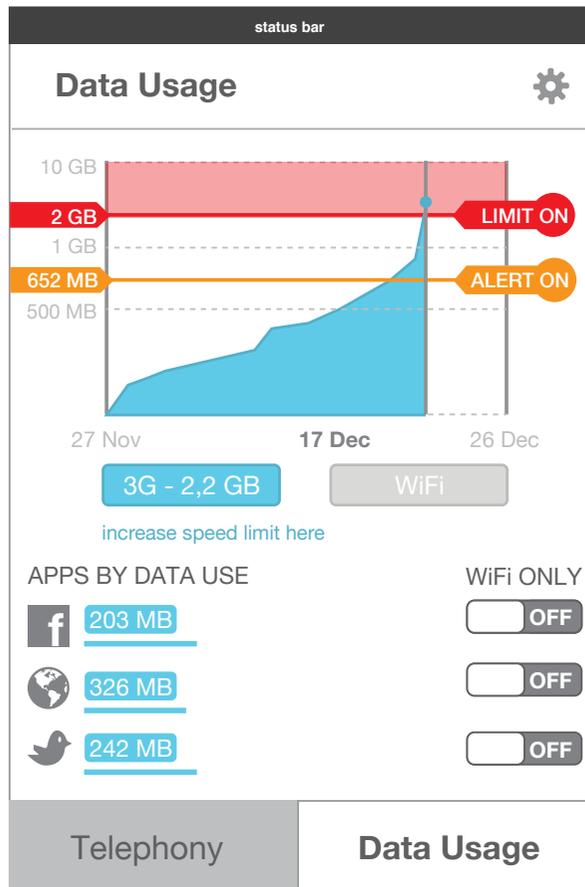
When 3G data is at or beyond the amount set by the alert, the graph background between alert and limit changes color.



Data Module with usage below alert

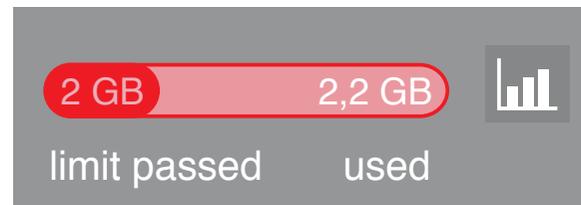
When 3G data is at or beyond the amount set by the alert, it changes color to match that in Data Usage graph.

Data Usage Limit & Alert Behaviors



Data Usage below at limit set

When 3G data is at or beyond the amount set by the limit, the background above limit changes color.

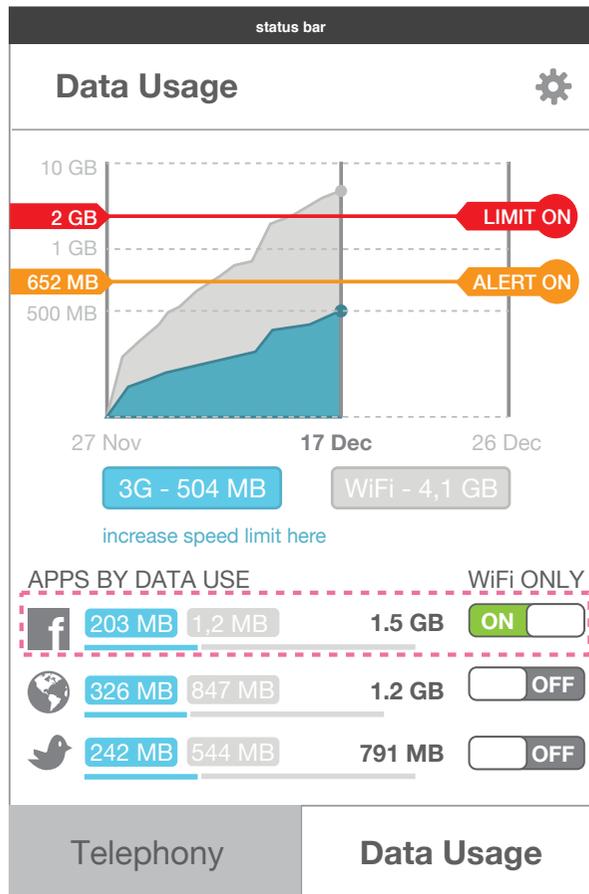


Data Module with usage at limit set

When 3G data is at or beyond the amount set by the limit, it changes color to match that in the Data Usage graph.

Data Usage

App Connection Management



App Connection Toggle

Each app in list can be set either to connecting only via WiFi, or with either WiFi or 3G data.

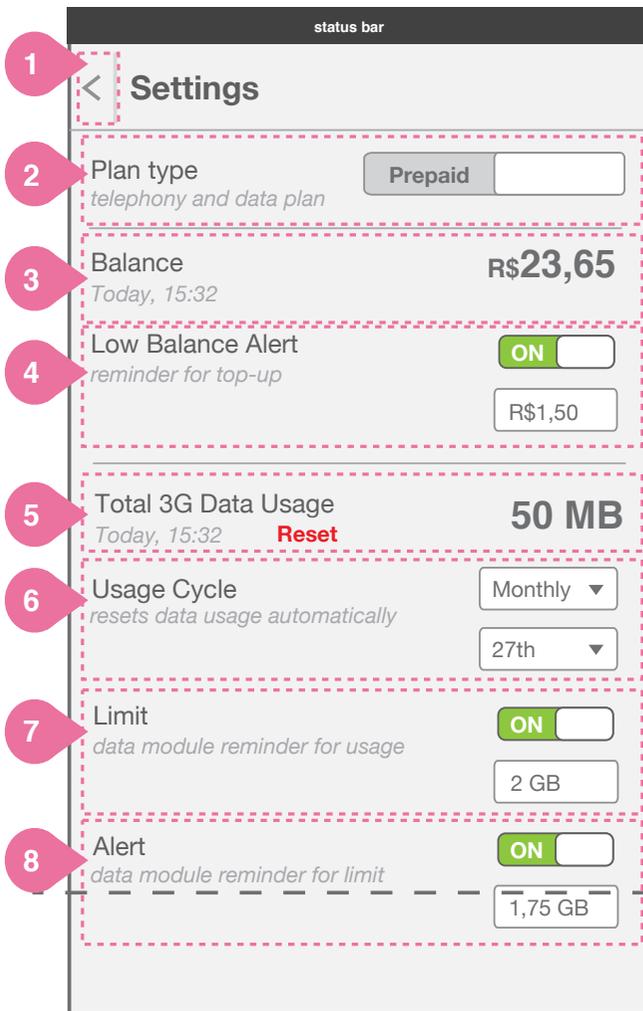


WiFi only App behavior

When an app is set to WiFi only and a user is on 3G: the App opens in Offline mode, then once an action is clicked a prompt appears allowing user to change setting.

app settings

Credit & Data Usage App Settings Overview - Prepaid view

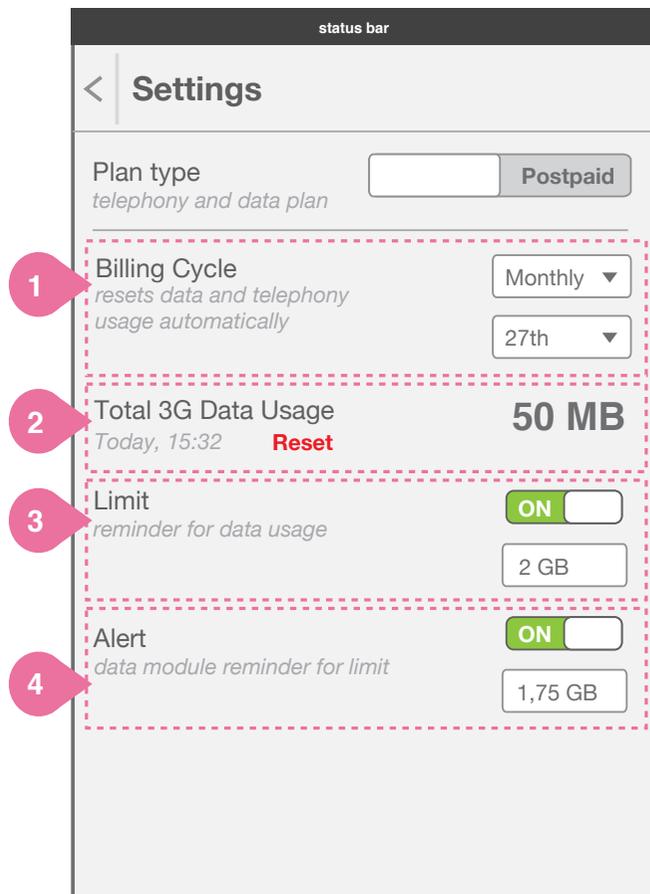


Details

- 1 Back Button**
Returns user to last aspect of App they were on with setting updates applied.
- 2 Plan Type**
Switch allows user to toggle between plan types. Settings below change based on plan type selected.
- 3 Balance**
This refers to the number last updated in App and Credit Module. This is not an active number, it is just a reference useful for user.
- 4 Low Balance Alert**
Allows user to set an alert when balance is low. It can be switched on/off, and a limit amount typed in. By default this is set ON to R\$1.50
- 5 Total 3G Data Usage & Reset**
This number is the same number from the total 3G usage. The Reset button allows users to put the data counter back to zero.
- 6 Usage Cycle**
Allows user to change from Monthly or Weekly usage cycles to reset data usage counter automatically. In period, user has to set start date. Default is Monthly and starting on 1st of month.
- 7 Limit**
Allows user to set a limit reminder in the data module.
- 8 Alert**
Allows user to set an alert reminder in the data module.

Credit & Data Usage App Settings

Overview - Postpaid view

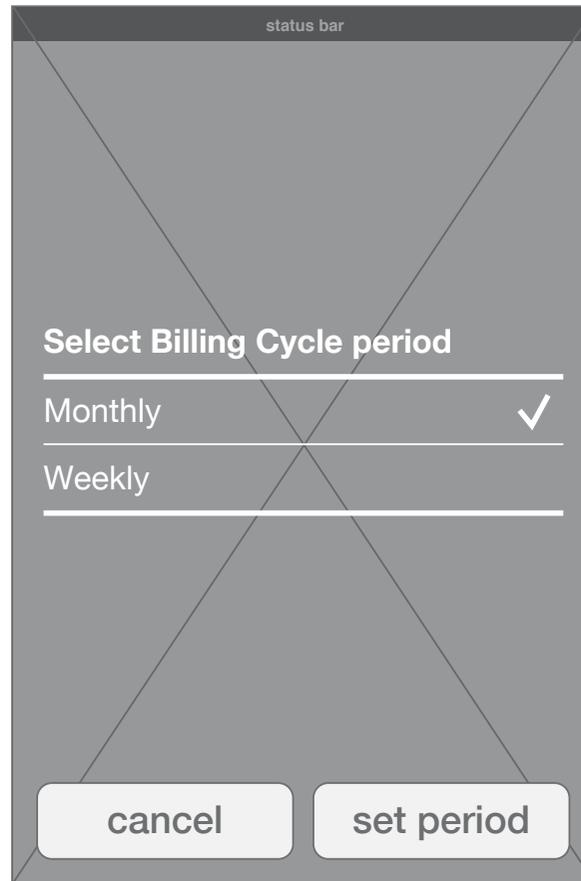
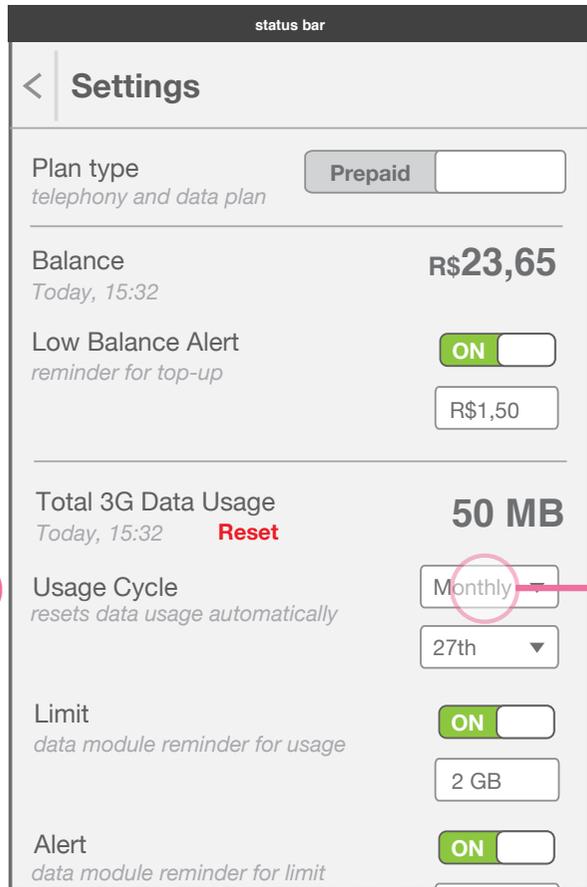


Details

- 1 Billing Cycle**
Allows user to change from Monthly or Weekly usage cycles to reset data usage counter automatically. In period, user has to set start date.
Default it Monthly and on 1st.
- 2 Total 3G Data Usage & Reset**
This number is the same number from the total 3G usage.
The Reset button allows users to put the data counter back to zero.
- 3 Limit**
Allows user to set a limit reminder in the data module.
- 4 Alert**
Allows user to set an alert reminder in the data module.

Credit & Data Usage App Settings

Billing/Usage Cycle Setting



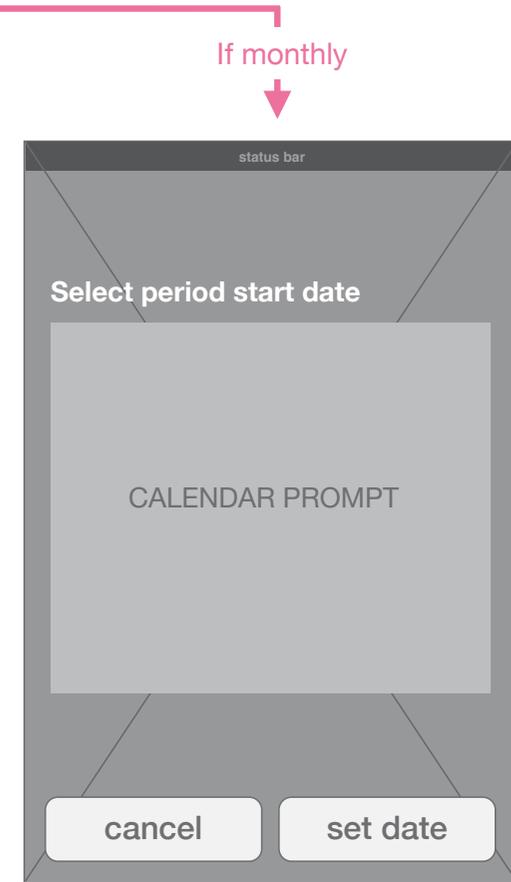
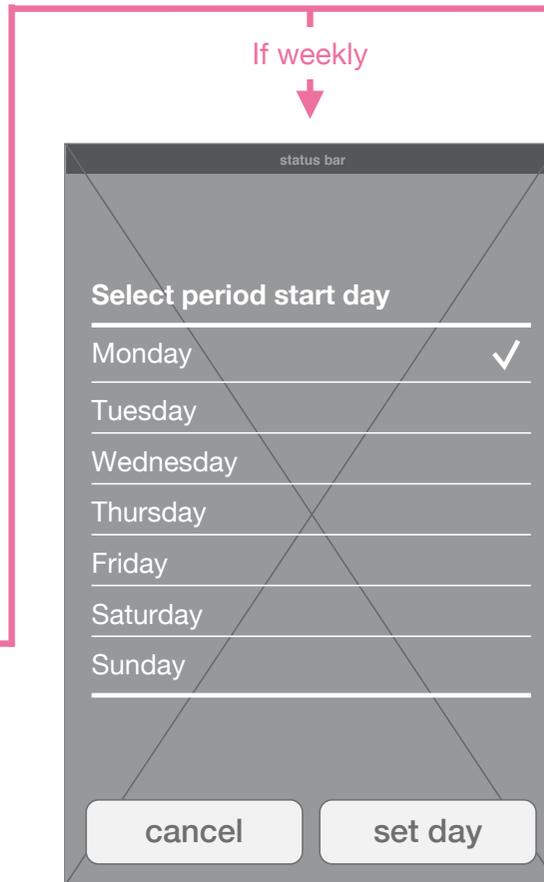
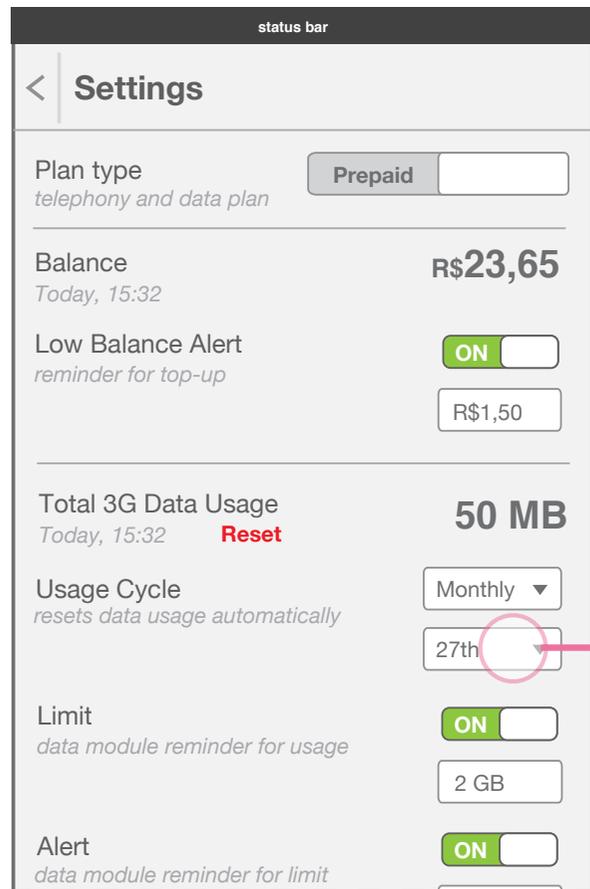
Details

- 1 **Usage Cycle period**
To set the data tracking period, a user taps on box and selects either Monthly or Weekly. The data usage graph dates change to reflect the selection.

List Prompt
see building blocks document

Credit & Data Usage App Settings

Billing/Usage Cycle Setting



Data Usage period

To set the start date of the data tracking period, a user selects 'Start Date' and then based on Period is presented with a prompt. The graph in Data Usage changes based on selection.

List Prompt

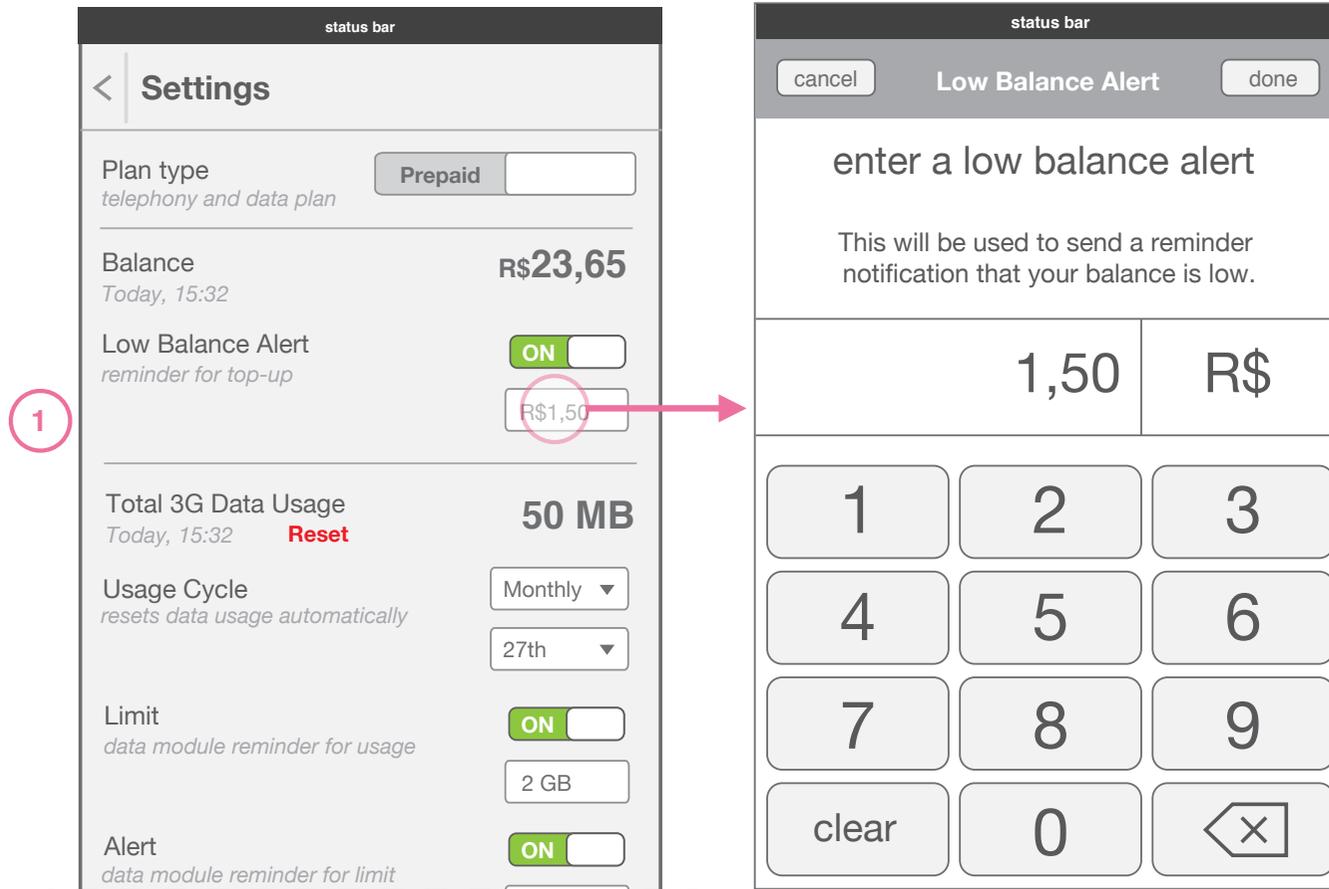
see building blocks document

Calendar Prompt

see building blocks document

Credit & Data Usage App Settings

Low Balance Alert Setting



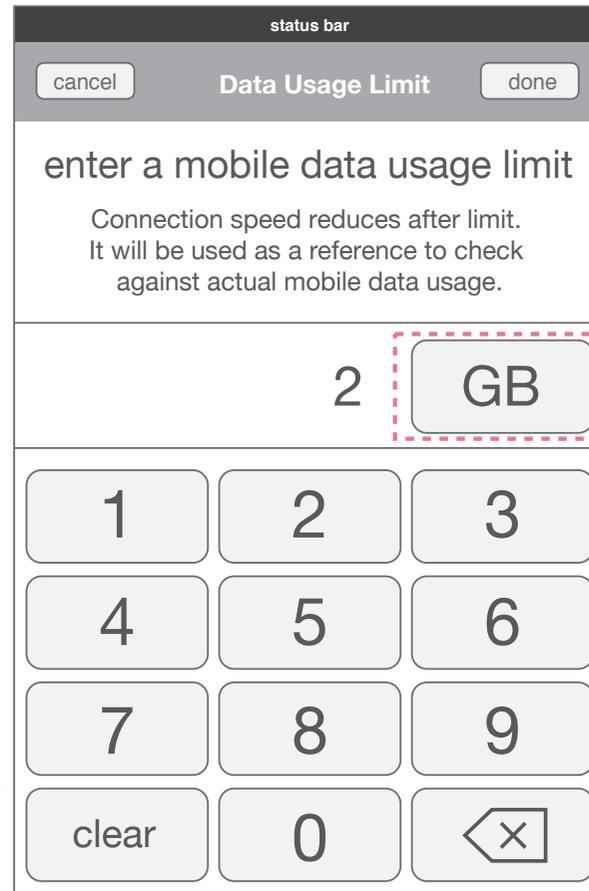
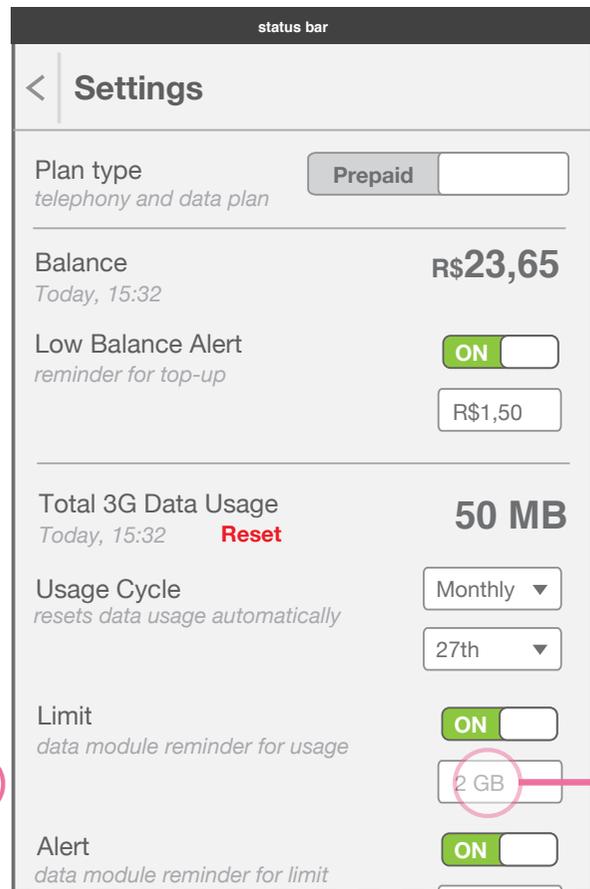
Details

- 1 Low Balance Alert Setting
To set the

Keypad

Credit & Data Usage App Settings

3G Data Usage Limit & Alert Setting



Details

1 Limit and Alert Setting
To set the

Details

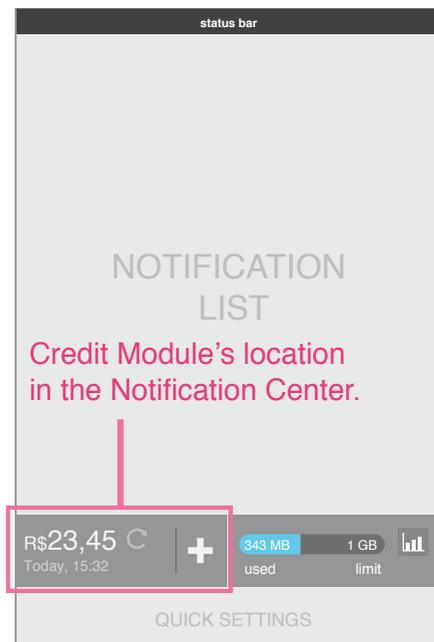
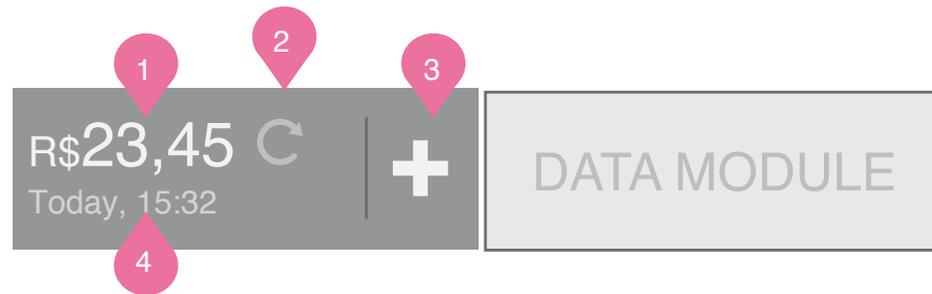
1 GB/MB
Tap button to switch between MB and GB setting.

Keypad

credit and data modules

Credit Module Overview - Prepaid

Behavior Details

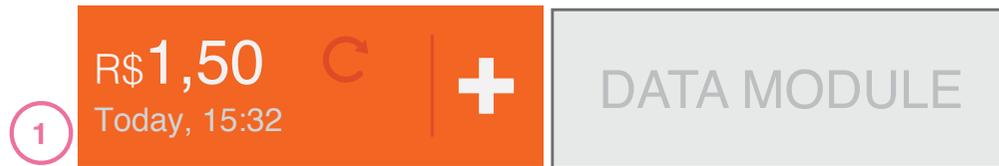


- 1 Credit counter**
Counter *decreases* showing the user how much money they have spent since their last top-up.
The counter updates automatically every time the tray is pulled down unless it has already updated in the past 2 minutes.
- 2 Refreshing credit counter**
The rotating icon appears only when the module is refreshing.
To manually refresh, a user can tap on the credit module.
- 3 Top-Up (use top-up icon here)**
Tapping on the Top-Up icon starts the top-up flow detailed later.
- 4 Timestamp**
Timestamp shows the time of the last successful refresh of the credit counter.

Credit Module

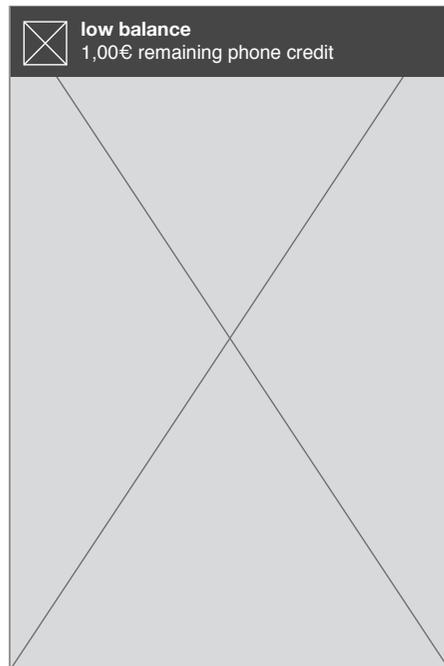
Prepaid scenarios

Low Balance Warning



Low Balance Alerts

- 1 When prepaid balance is running low:
The background of Credit Module changes color to warn the user.
- 2 A Passive Notification is sent.



2 Low Balance Notification

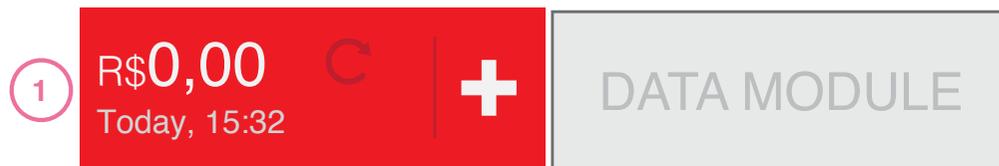
Low Balance Threshold Amount

The low balance alert should appear at a level set by the user in settings. By default though, it should be set at R\$1,50 which is half the lowest pre-paid top-up amount of R\$3,00.

Credit Module

Prepaid scenarios

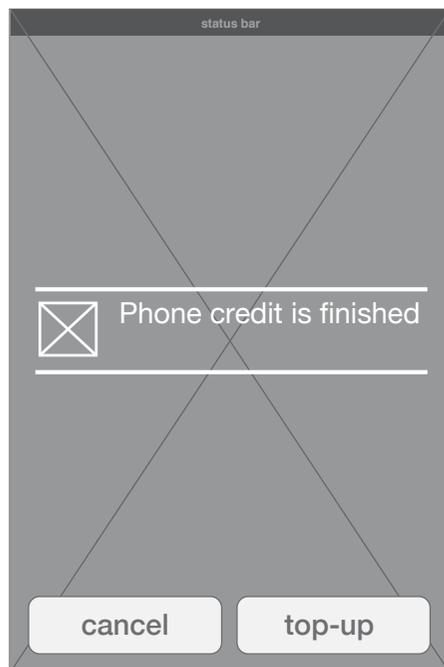
No Balance Warning



No Balance Warnings

When prepaid balance is finished:

- 1 The background of Credit Module changes color to warn the user.
- 2 A prompt is presented to the user to alert them and to give the option of top-up. (vivo top-up icon to appear in prompt)



2 No Balance Notification

Credit Module

Prepaid scenarios

Refresh Error

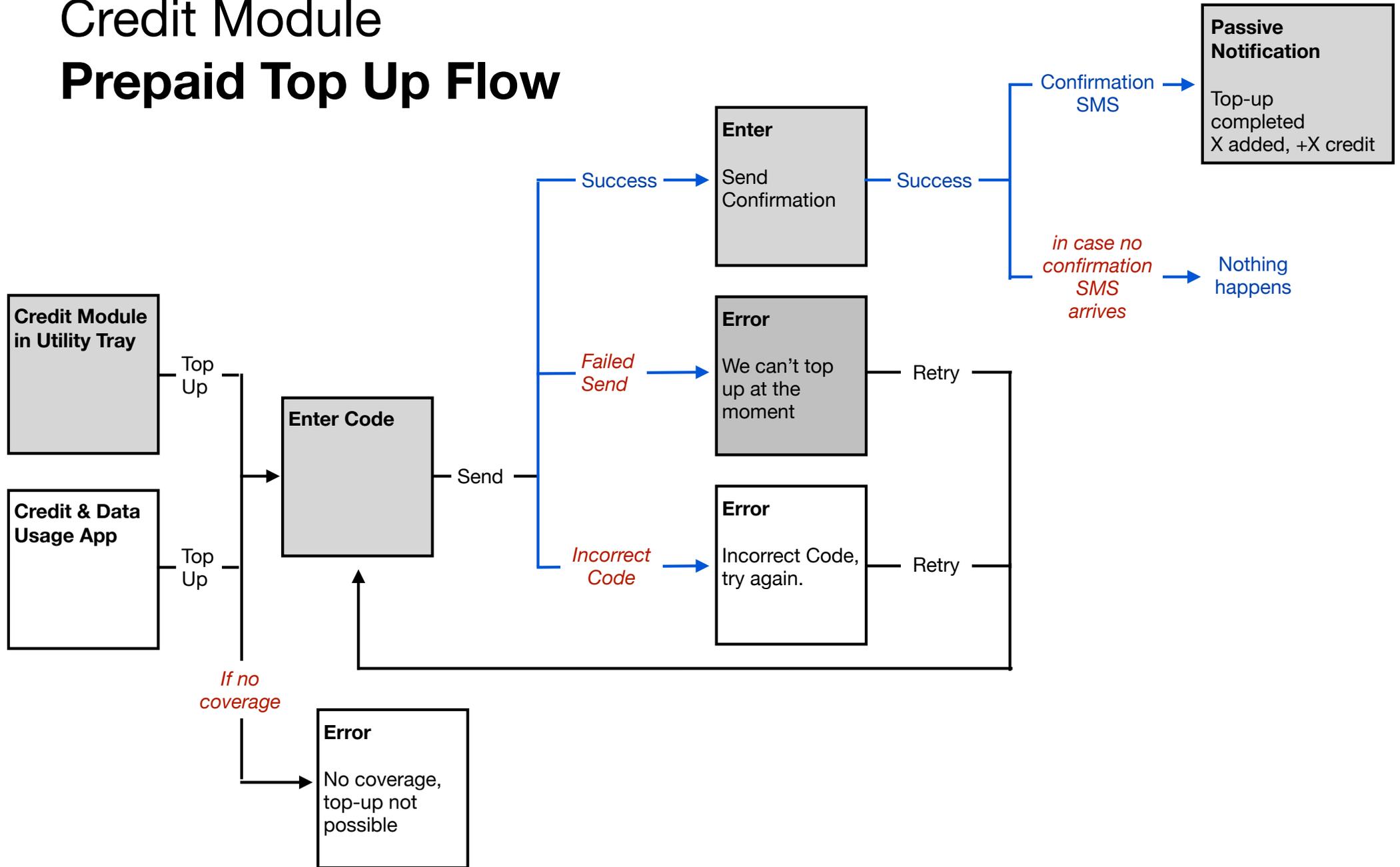


Refresh Error

If an error occurs during manual refresh, the credit counter goes to a grey or darker state to indicate it is not updated.

Credit Module

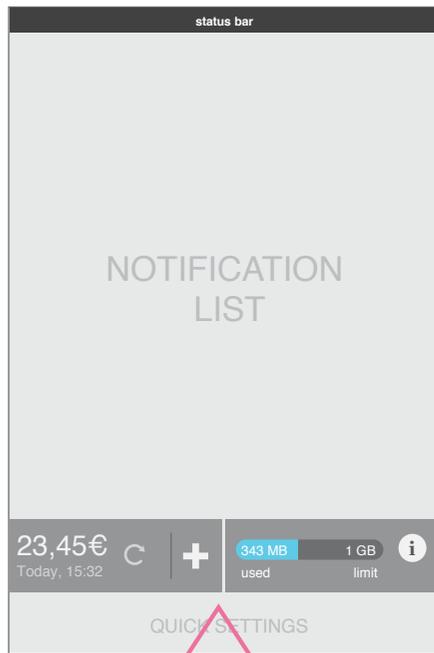
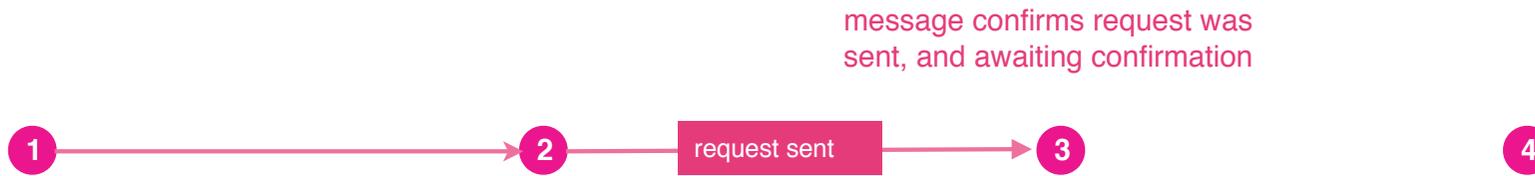
Prepaid Top Up Flow



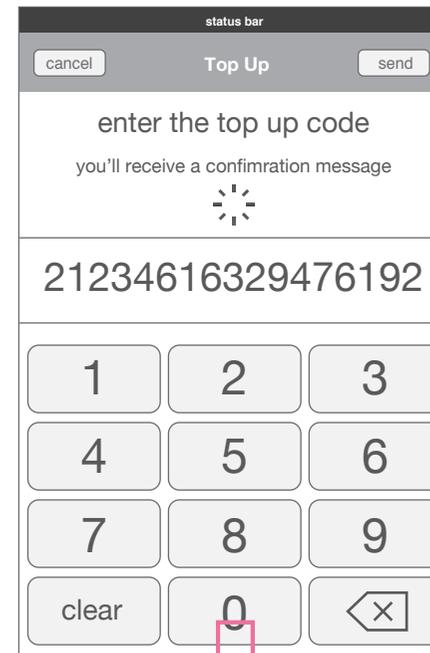
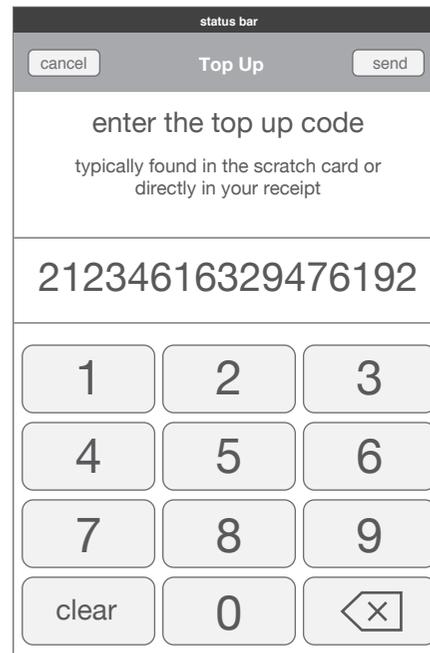
Credit Module

Prepaid Top Up Flow

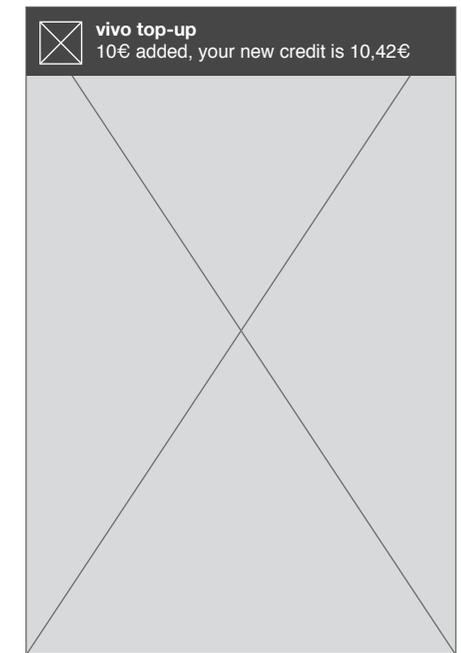
Note:
These wireframes are based on the assumption that the top-up confirmation message comes from the a different number than the one to check balance.



top-up keypad animates on top.



after confirmation, keypad animates away, back to notification center.



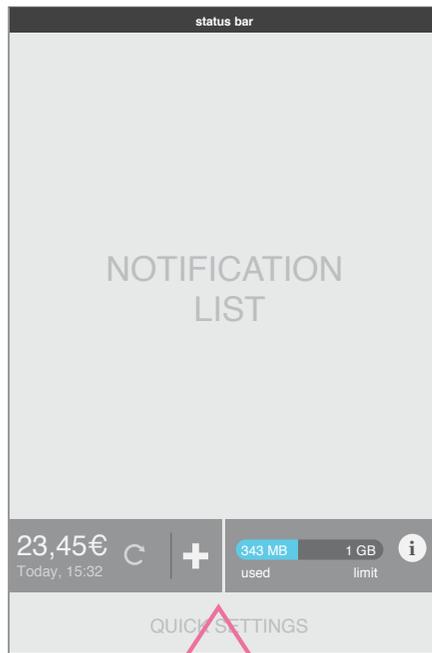
confirmation SMS arrives as a passive notification

Credit Module

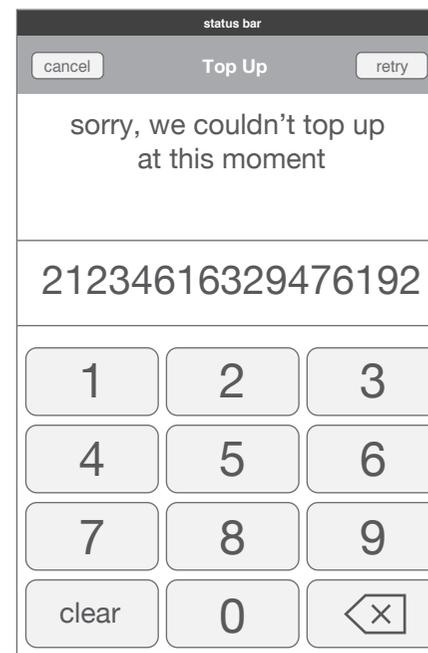
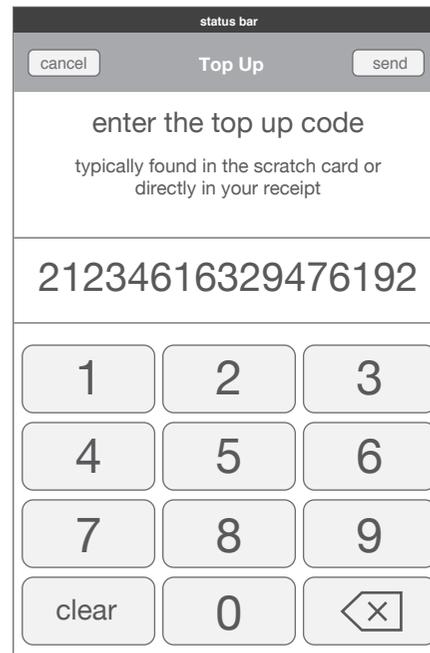
Prepaid Top Up Flow

Error Example

Note:
These wireframes are based on the assumption that the top-up confirmation message comes from the a different number than the one to check balance.



top-up keypad animates on top.

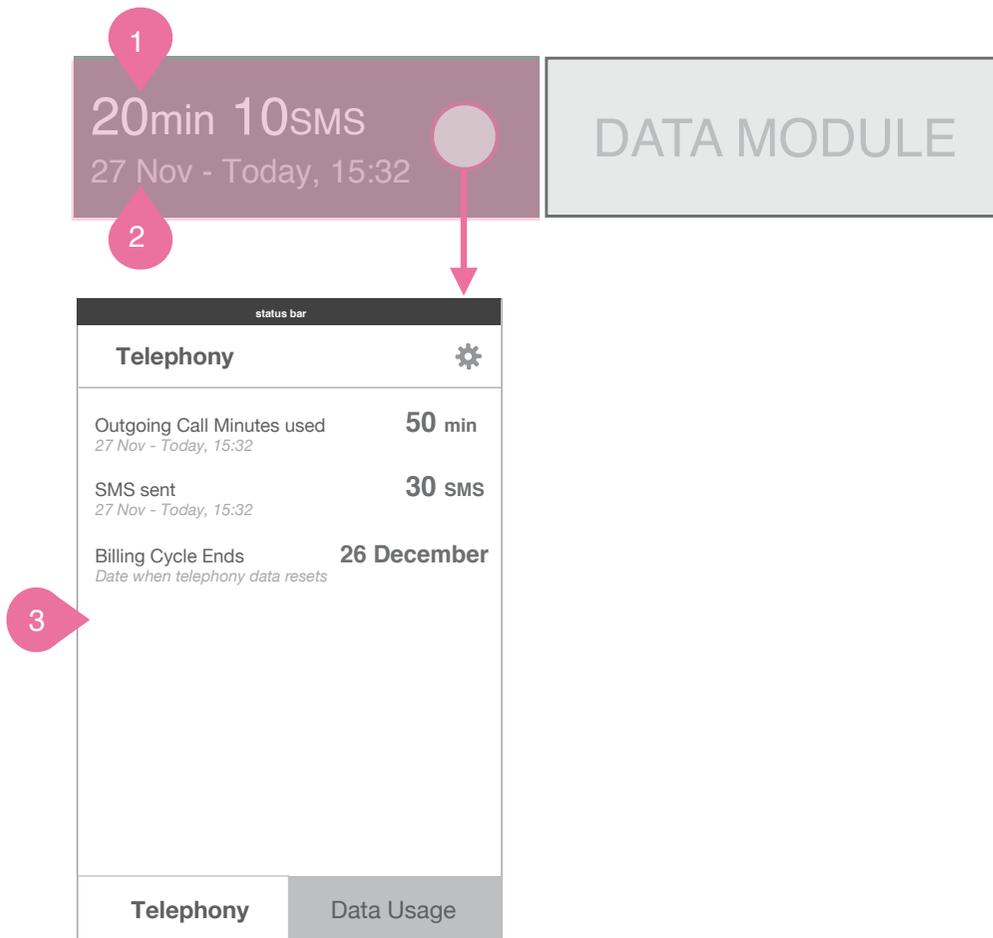


error message, allows user to retry sending or to cancel out.

Credit Module

Overview - Postpaid

Behavior Details

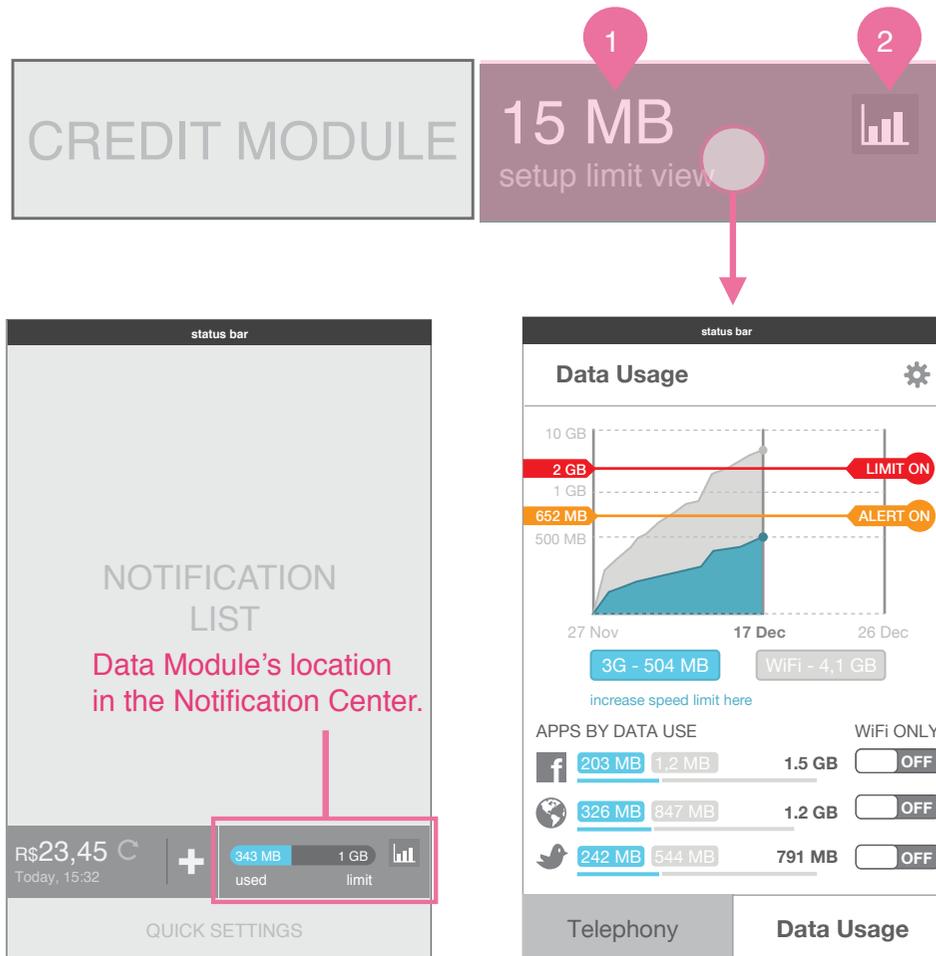


- 1 Outgoing Calls and SMS sent**
Counter for all outgoing calls and SMS sent within postpaid billing period set.
- 2 Timestamp**
Timestamp shows the billing/usage period of the calls and sms shown, and the time of the last SMS or Call made (the time the counter was last updated).
- 3 Detailed Telephony App View**
Tapping on the Credit Module sends the user to the Telephony view in the app.

Data Module

Overview - no limit set

Behavior Details . no limit set



Mobile data counter

1 Counter of total 3G data used increases. If no limit is set, this number resets itself after each month as a default.

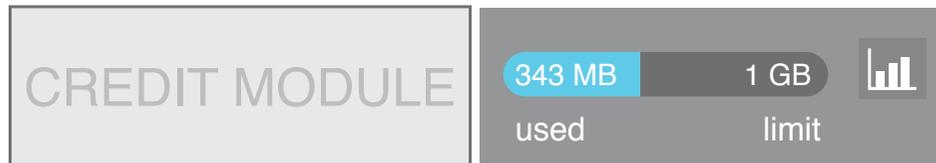
Data Usage details

2 Tapping on this icon sends a user to the Data Usage detailed view in the app.

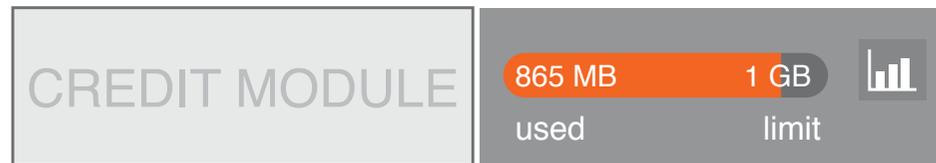
Data Module

Overview - with limit set

Behavior Details . limit set



Mobile data counter
reports total 3G and reminds user of limit they set.



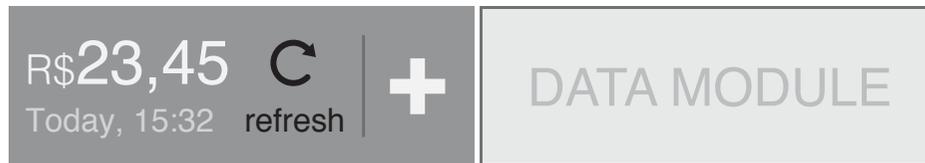
Close to limit
chart changes color to alert user they are close to limit.



Limit Reached
changes color and numbers of limit and usage flip to alert user they have reached passed limit.

Credit and Data Modules

Roaming Scenario



Roaming

When user is roaming, no automatic refresh is done by the system, it can only be completed manually. The Credit Module changes to display this point by showing the rotating wheel as an icon. When the module is pressed, an update is performed.



Credit and Data Modules

Non-Vivo SIM inserted

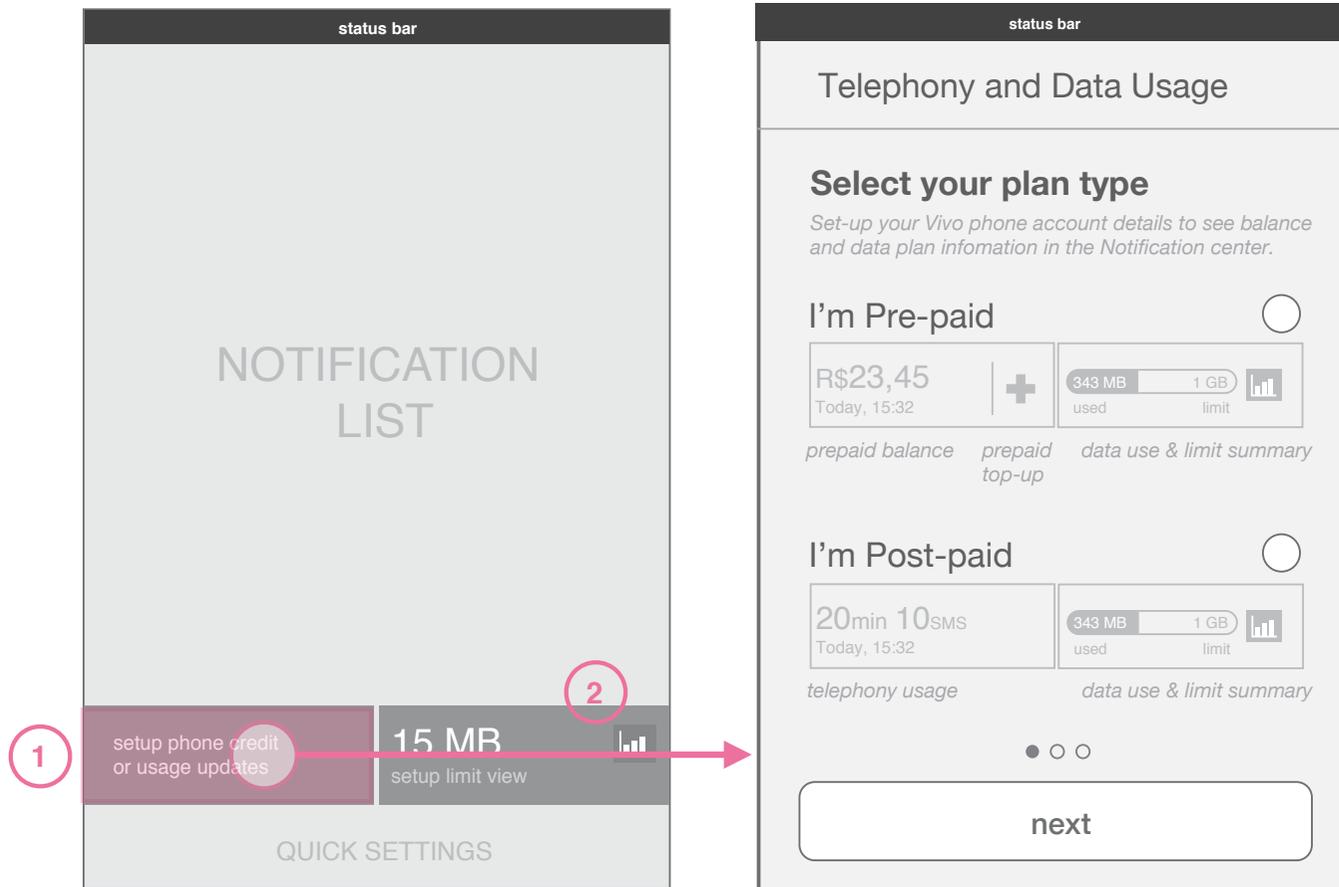
Roaming

When user is roaming, no automatic refresh is done by the system, it can only be completed manually. The Credit Module changes to display this point by showing the rotating wheel as an icon. When the module is pressed, an update is performed.



first time set-up

First Time Set-up From Notification Center



Details

Credit Module

1 The first time the notification center is revealed, the Credit Module is inoperative, and shows a message explaining that it needs to be set-up.

Tapping on the Credit Module opens the Credit & Data Usage App in the first time set-up flow.

If the Credit Module does not get set-up, this message is always shown when the Notification Center is revealed.

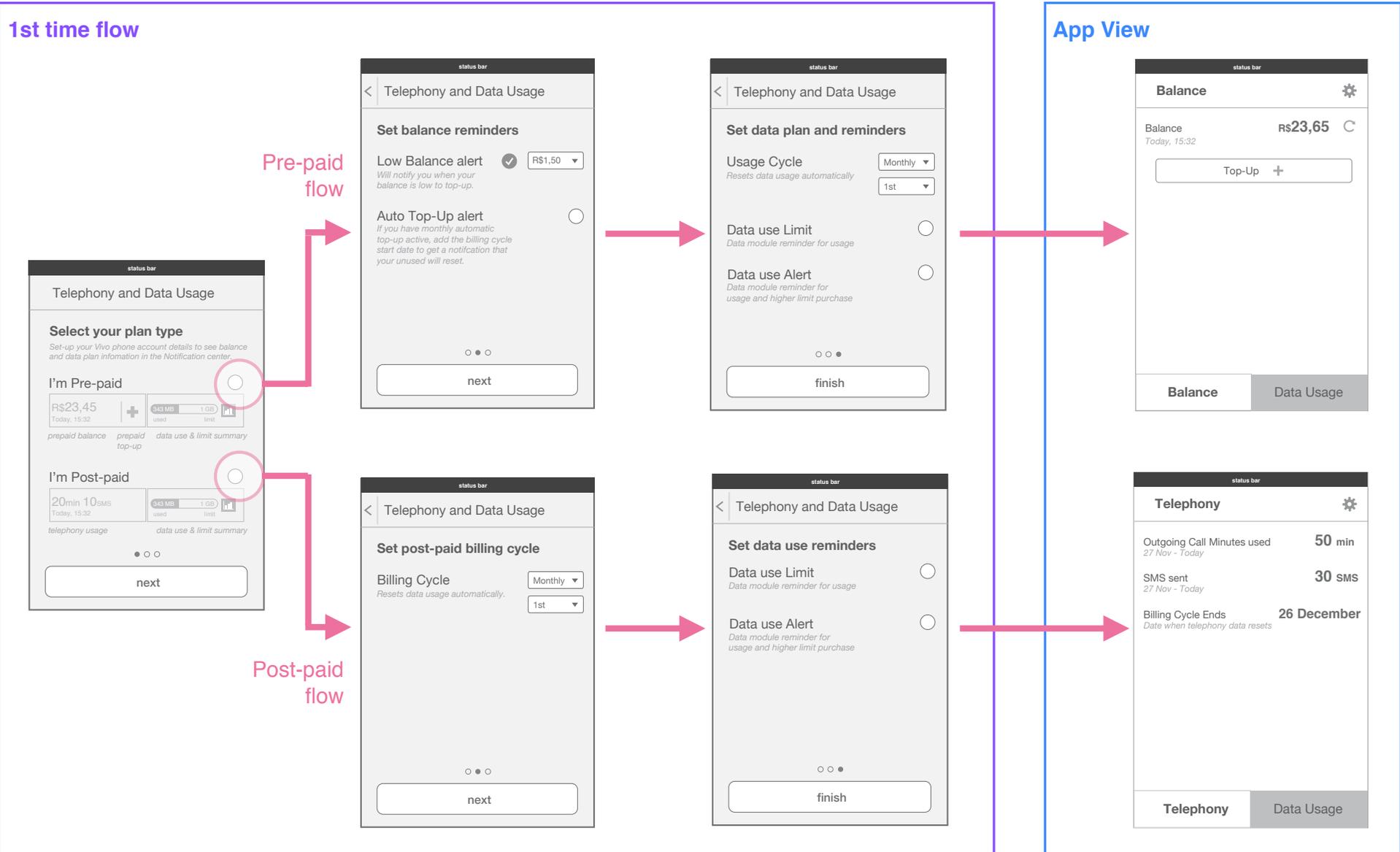
2 Data Module

The Data Module is active from the first time the phone is turned on and set by default to just counting the total amount of mobile data used, resetting itself after a calendar month.

1st time Notification Center is revealed, or first time Credit & Data Usage App is opened.

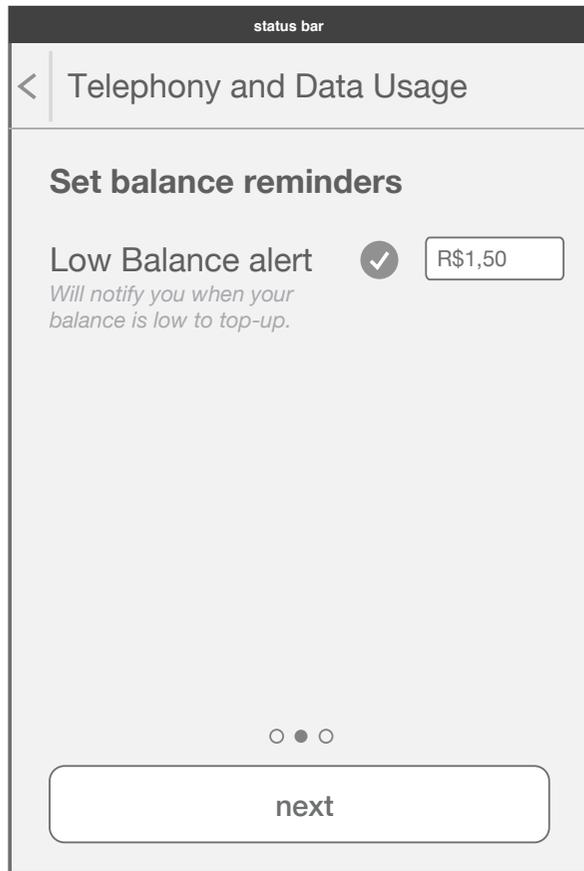
Credit & Data Usage App 1st time set-up

First Time Set-up Flows

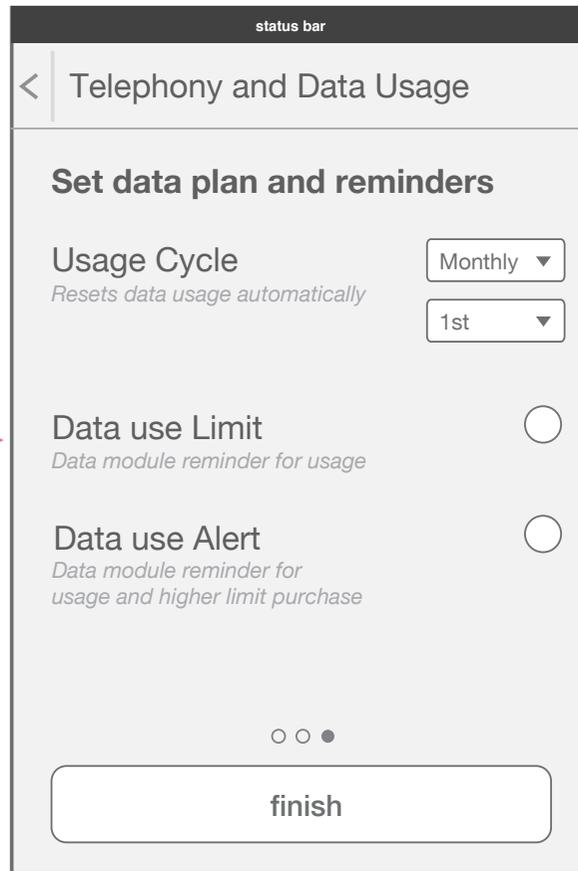


First Time Set-up

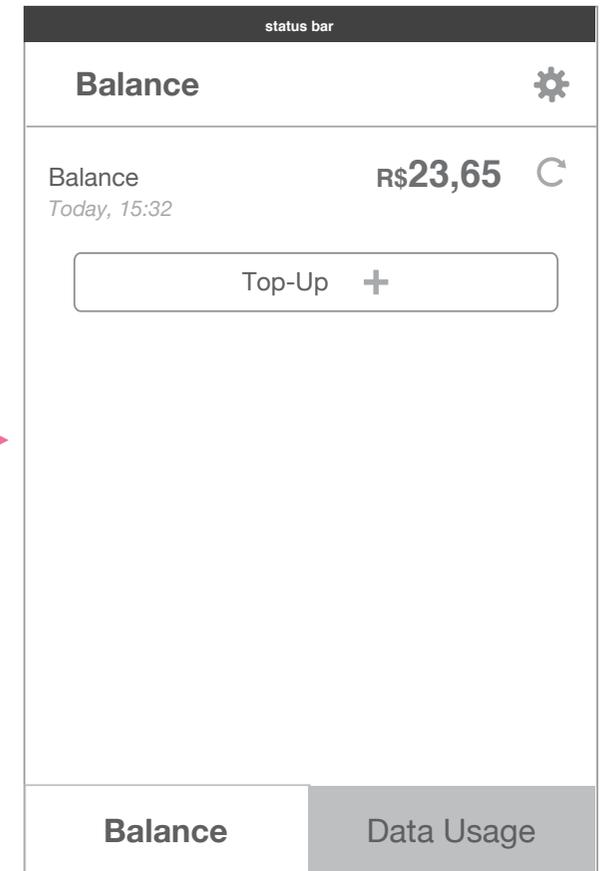
Prepaid flow



Set balance reminders



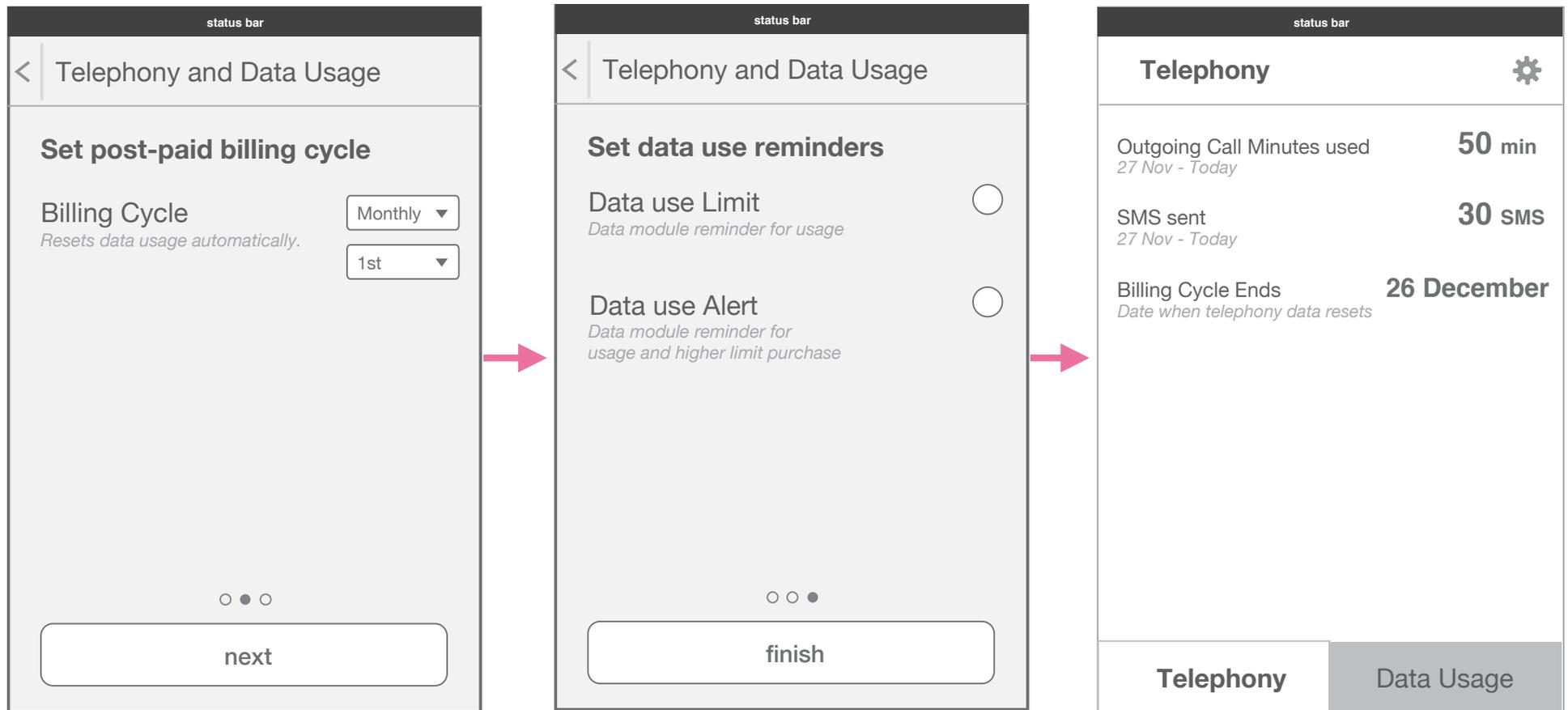
Set data plan and reminders



Set-up complete - see Balance screen on App.

First Time Set-up

Postpaid flow



Set billing cycle

Set data use reminders

Set-up complete - see Telephony screen on App.