



DSDS Guideline

Version 0.2 [2014/01/15]

Most recent spec available at – [link to folder in mozilla.box.com]
[insert bug # and title]
Questions? Email the author or _____

Version history

0.1	[2013/12/23]	[Carrie Wang]	DSDS Guideline
0.2	[2014/01/15]	[Carrie Wang]	<p>p.9: add carrier names and phone numbers on subtitle add a third option: Always ask</p> <p>p.16–17: SIM indication on different notifications</p> <p>p. 18–22: the new SIM picker for long tap.</p> <p>p.33–38: add carrier names and phone numbers on subtitle</p>

Content

Page	Topic	Note
p.4-12	General design of DSDS (SIM status/ Lockscreen/ SIM manager)	Everyone can take a look as basic knowledge of DSDS
p.13-15	FTE	Jacqueline can refer to this part for your work in 1.4
p.18-22	On-the-fly SIM change	Ayman can refer to this part for your work in 1.4
p.23-32	Dual SIM PIN rules (not in 1.4 scope)	
p.33-38	SIM related settings	Neo can refer to this part for your work in 1.4

SIM status

Status bar

updated v0.1

[2 SIM inserted and SIM 2 is set as primary SIM for data connection]



[2 SIM inserted, only one SIM has 3G]



[2 SIM inserted, both SIM don't have 3G]



[Only SIM 1 inserted]



[Only SIM 2 inserted]



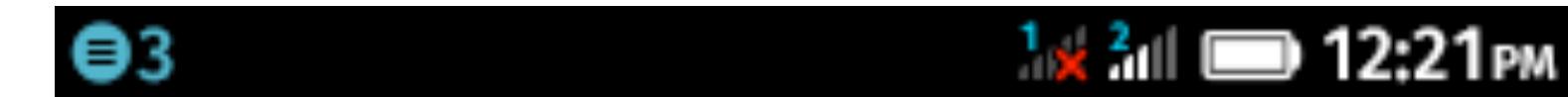
[2 SIM inserted, SIM 1 is PIN-locked]



[2 SIM inserted, both SIM are PIN-locked]



[2 SIM inserted, SIM 1 is out of coverage]



[2 SIM inserted, SIM 2 is out of coverage]



Lockscreen

updated v0.1

[2 SIM inserted]



[Only SIM 1 inserted]



[Only SIM 2 inserted]



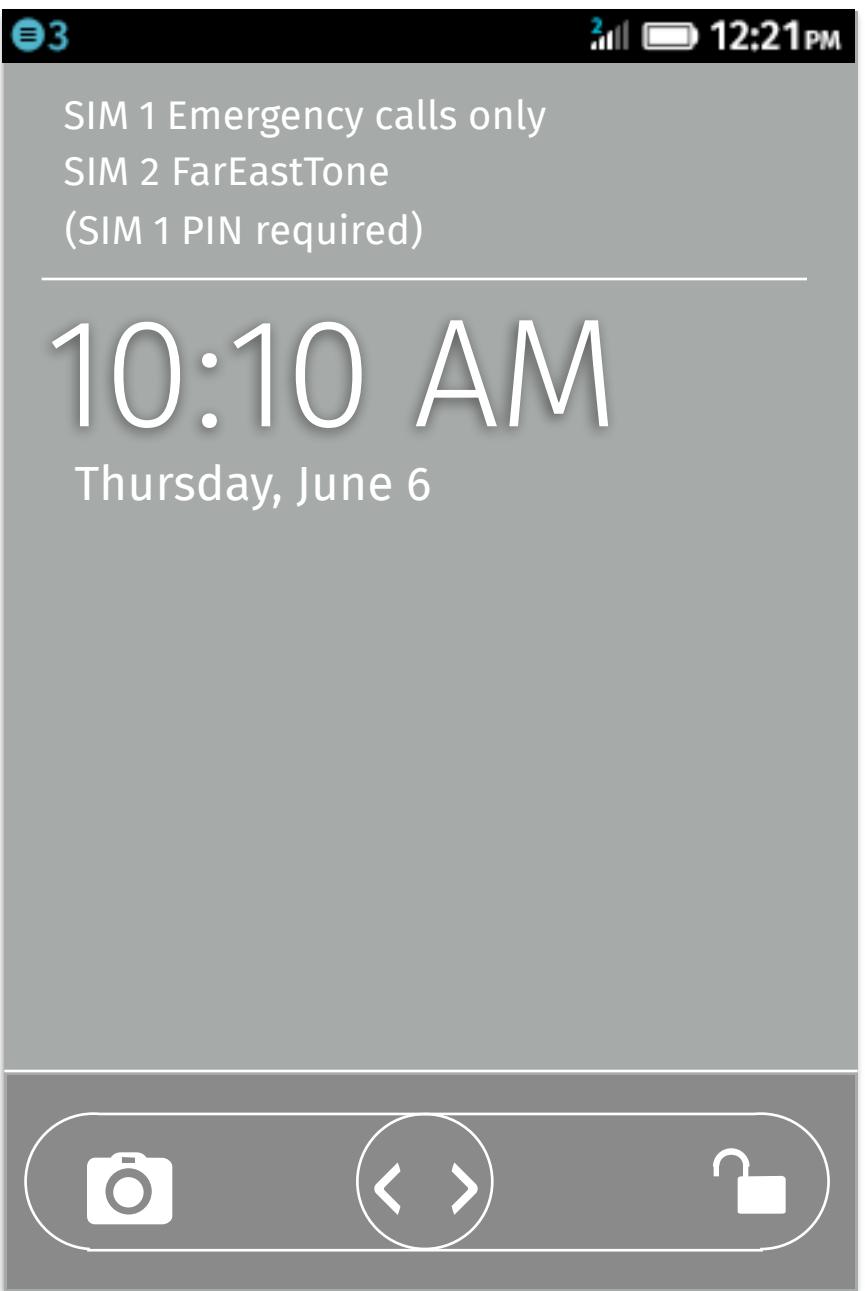
Lockscreen

updated v0.1

[Both SIM locked]



[SIM 1(primary SIM) locked /
SIM 2 is unlocked]



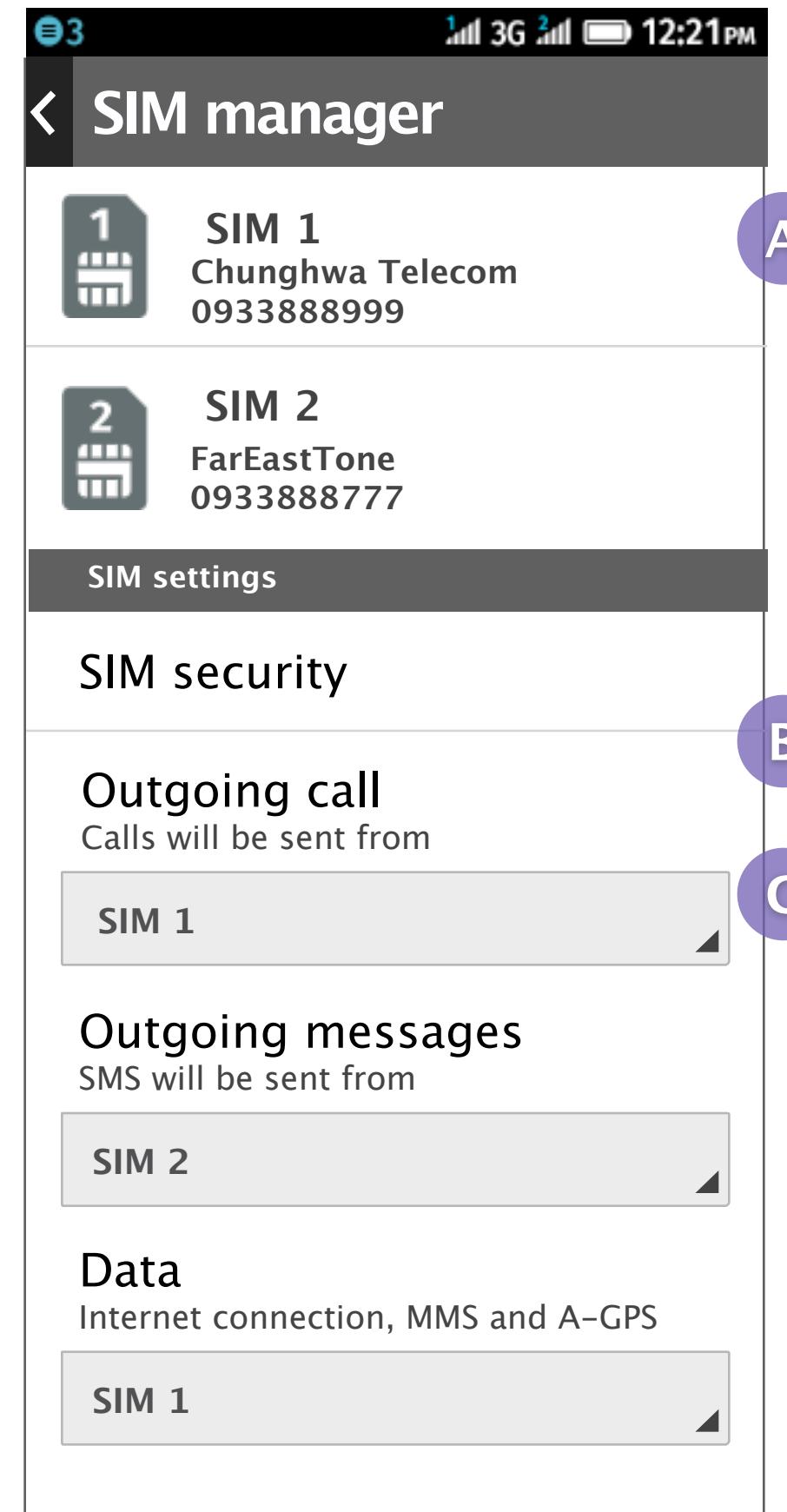
[One SIM locked /
SIM 1 is the primary SIM]



SIM manager page view

updated v0.1

[2 SIM inserted]



A [SIM status]

[In this area, it shows SIM 1 and SIM 2 status, which includes operator name and numbers (depends on carrier).]

B [SIM security]

[The SIM security is moved from settings to SIM manager so that users can do all SIM-related settings here.]

No icon and no subtitle here.]

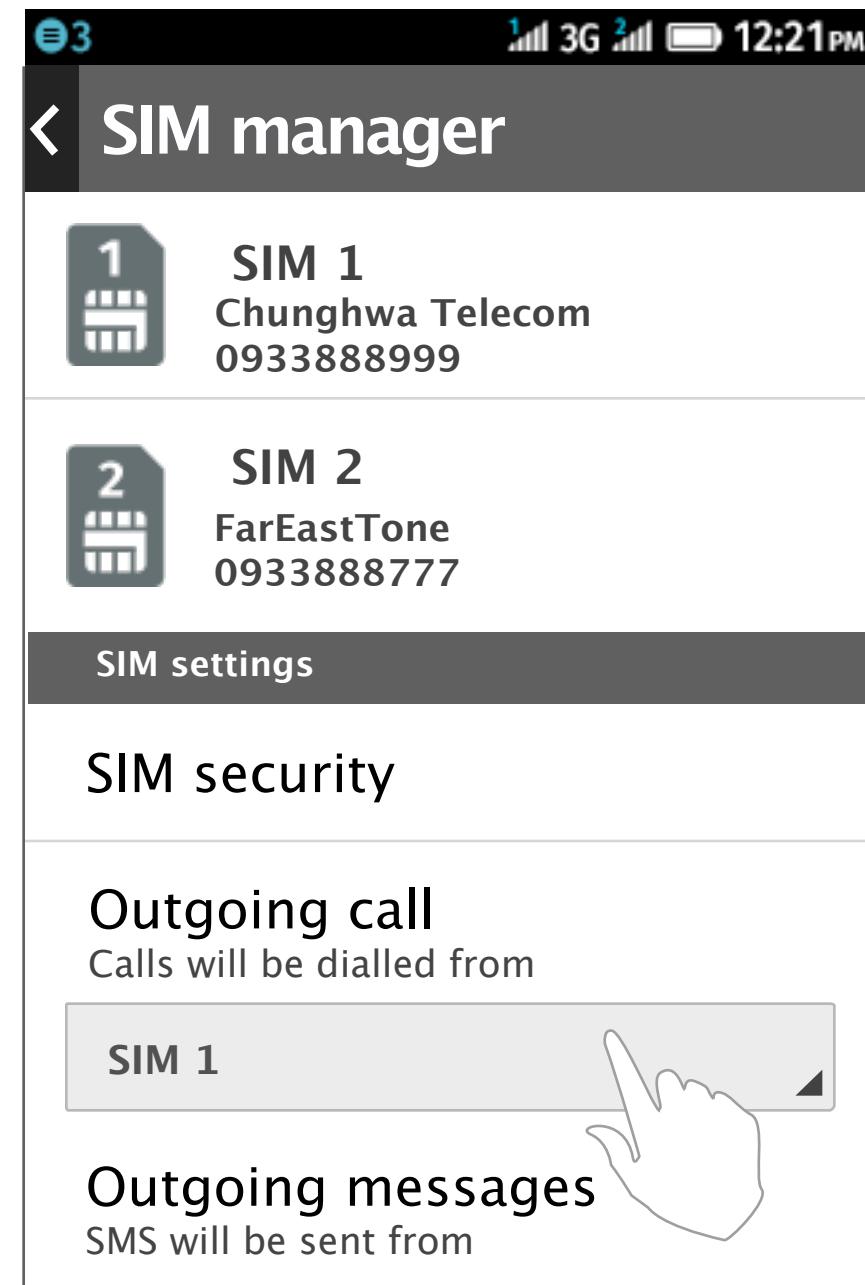
C [Primary SIM settings]

[Users can set the primary SIM for each function here.]

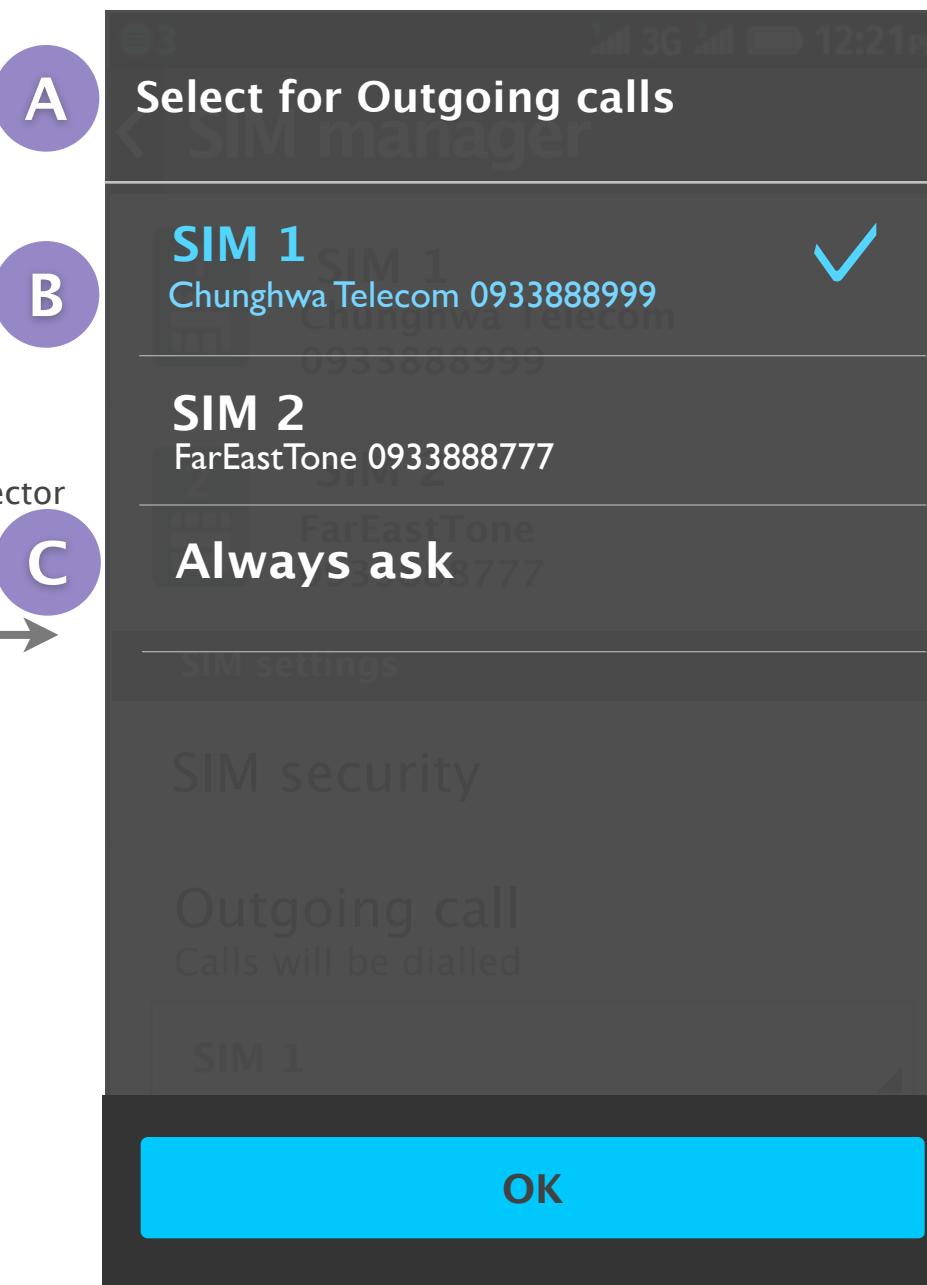
SIM picker page view

updated v0.1

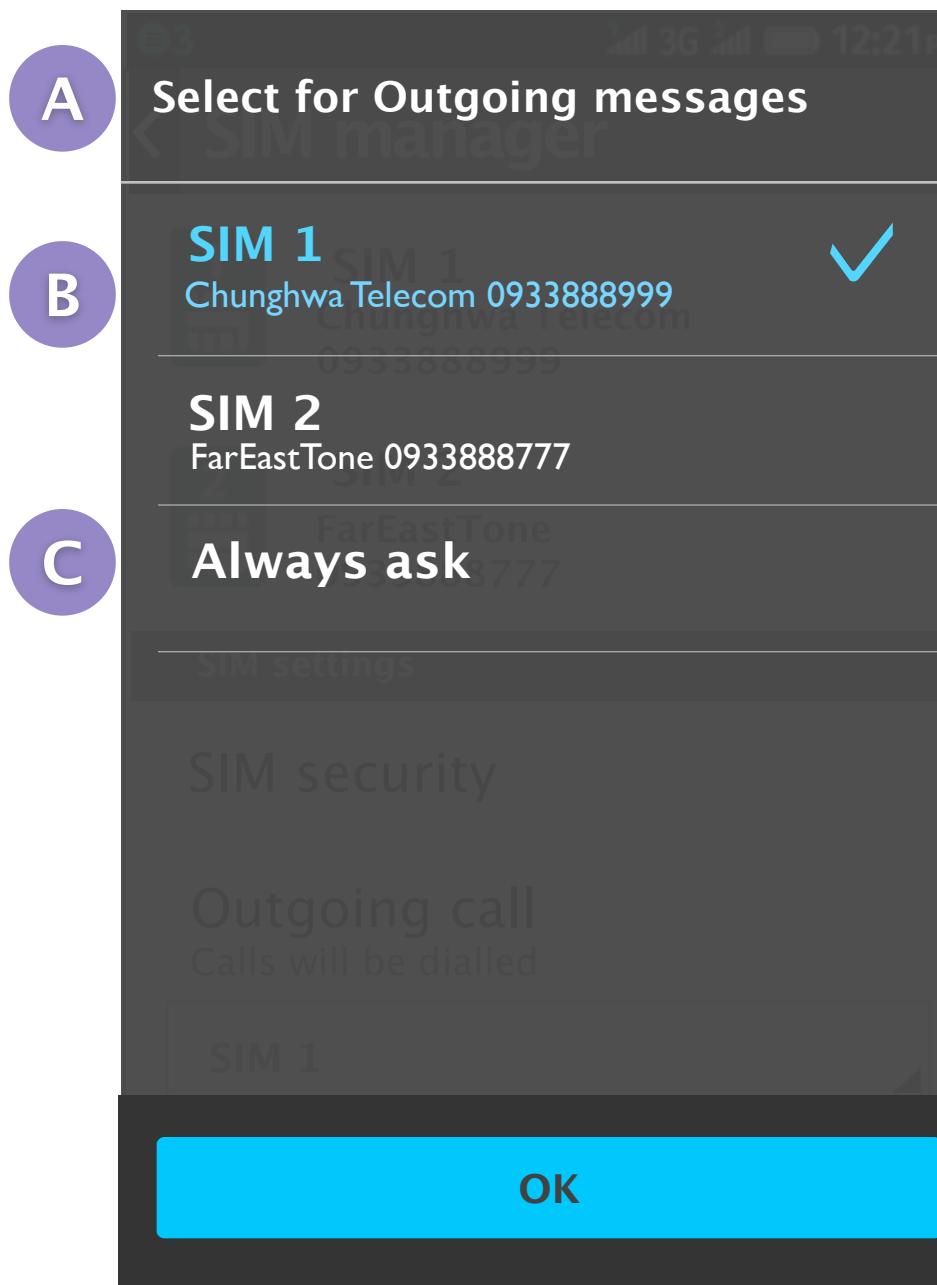
[SIM manager]



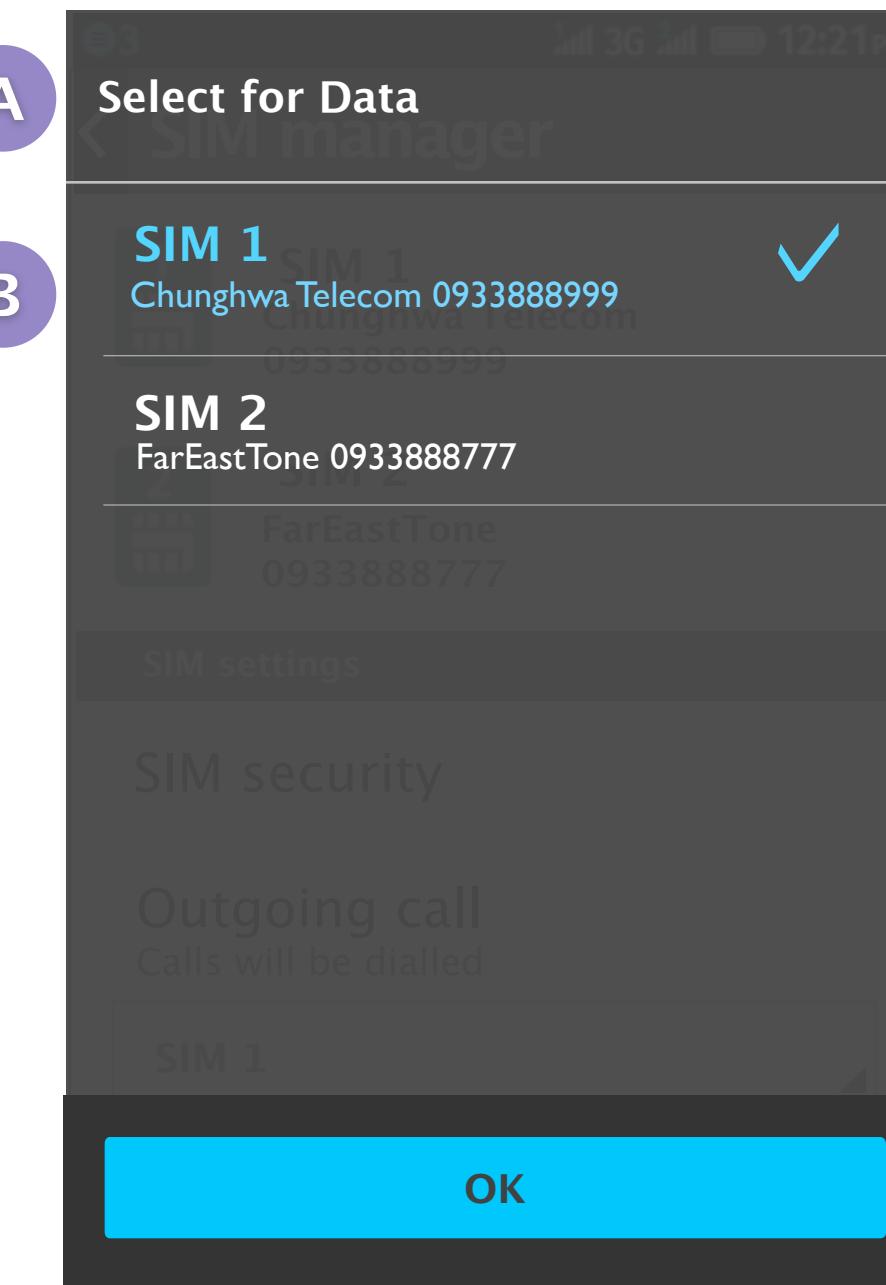
[SIM picker for outgoing call]



[SIM picker for outgoing message]



[SIM picker for data connection]



A [Selector title]

[The title indicates the SIM will be used for which function.]

B [SIM related information]

[The subtitle will show the operator name and the phone numbers.]

Please noted that the phone numbers are optional (the operator may or may not provide it.)]

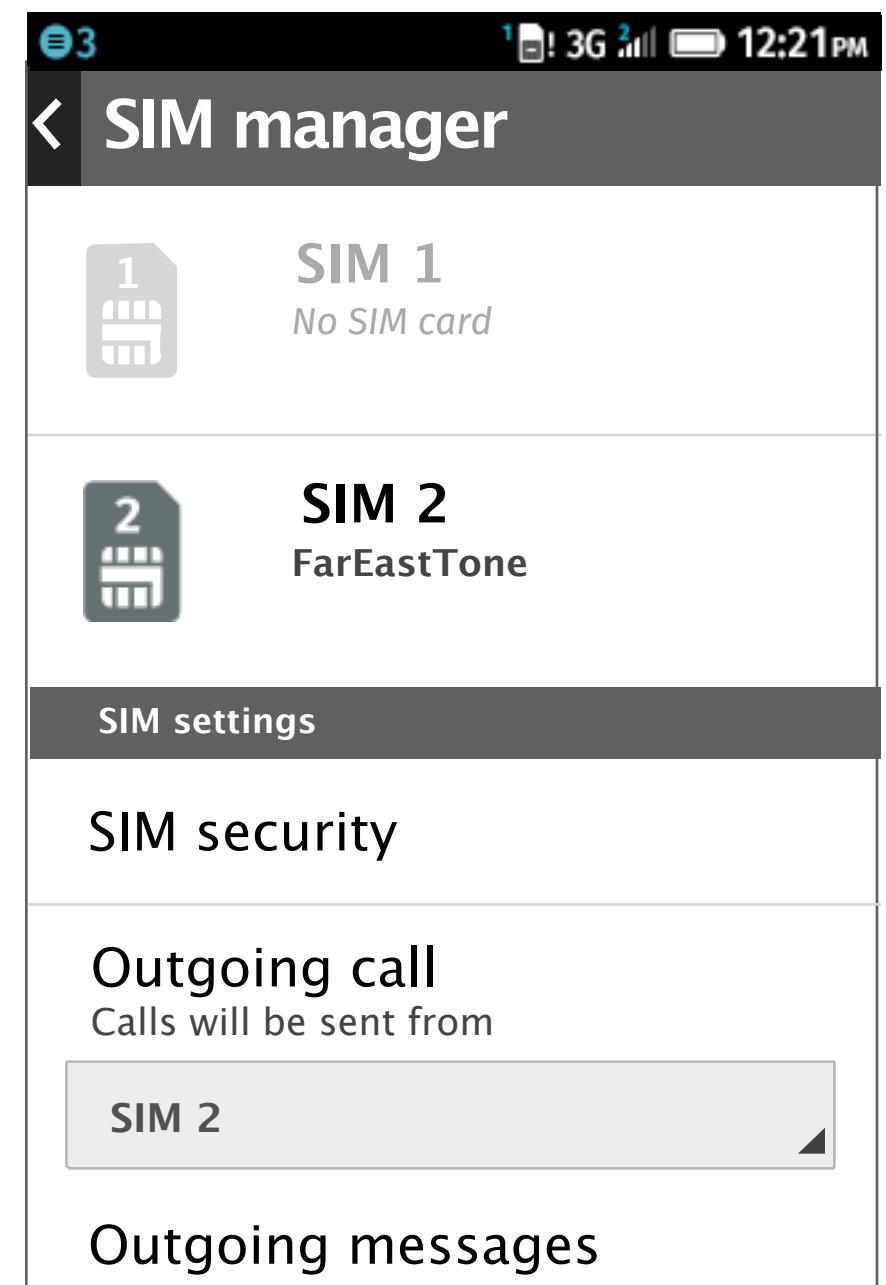
C [Always ask]

[Rather than selecting a primary SIM, users can choose "Always ask" for prompt SIM selector every time when they want to make a call or send a message (The option only set for Outgoing calls and messages).)

SIM manager

updated v0.1

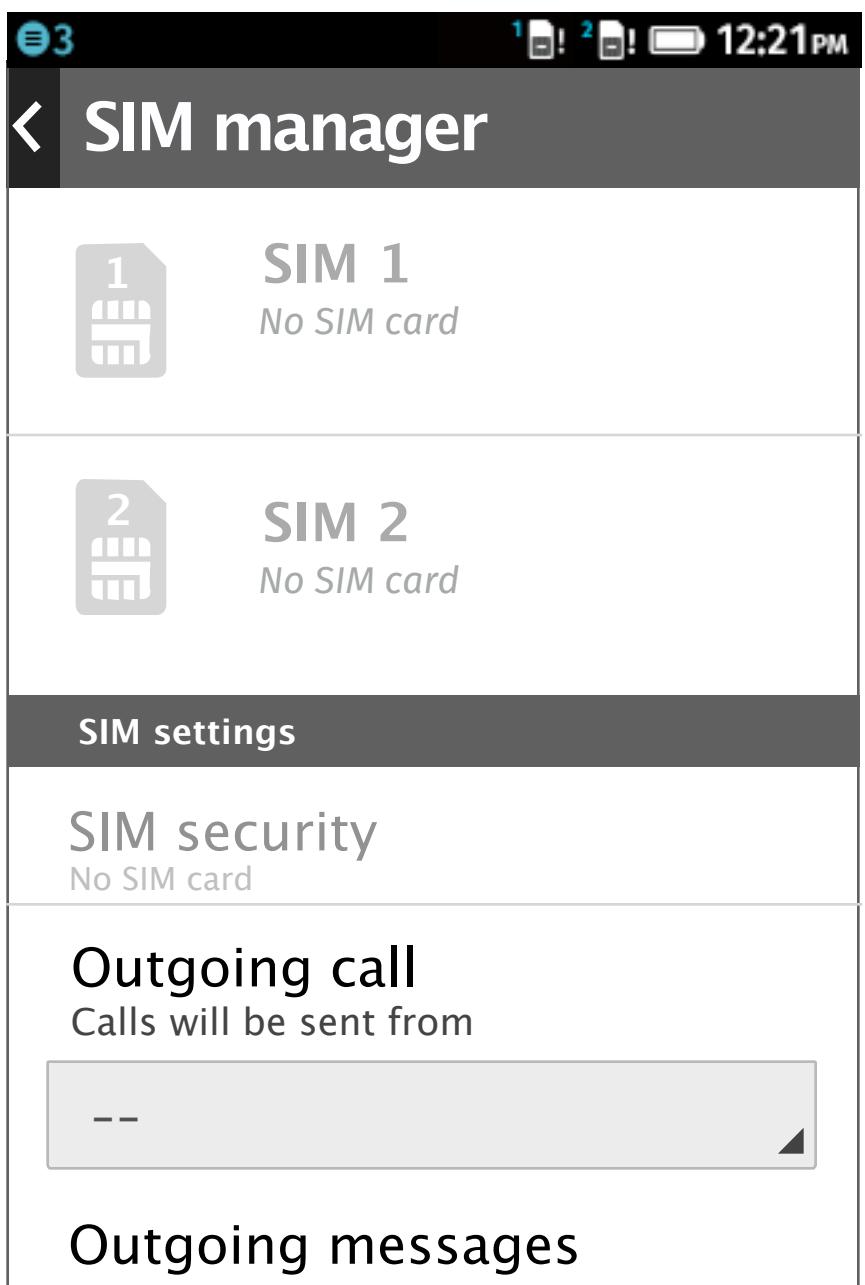
[Only one SIM inserted]



If the user remove a SIM (SIM 1), then all the settings will be set to the other SIM (SIM 2)

If the user insert SIM 1 back or insert a new SIM, the settings will still keep with SIM 2 (but SIM manager will pop up after reboot, please reffer to p. 11)

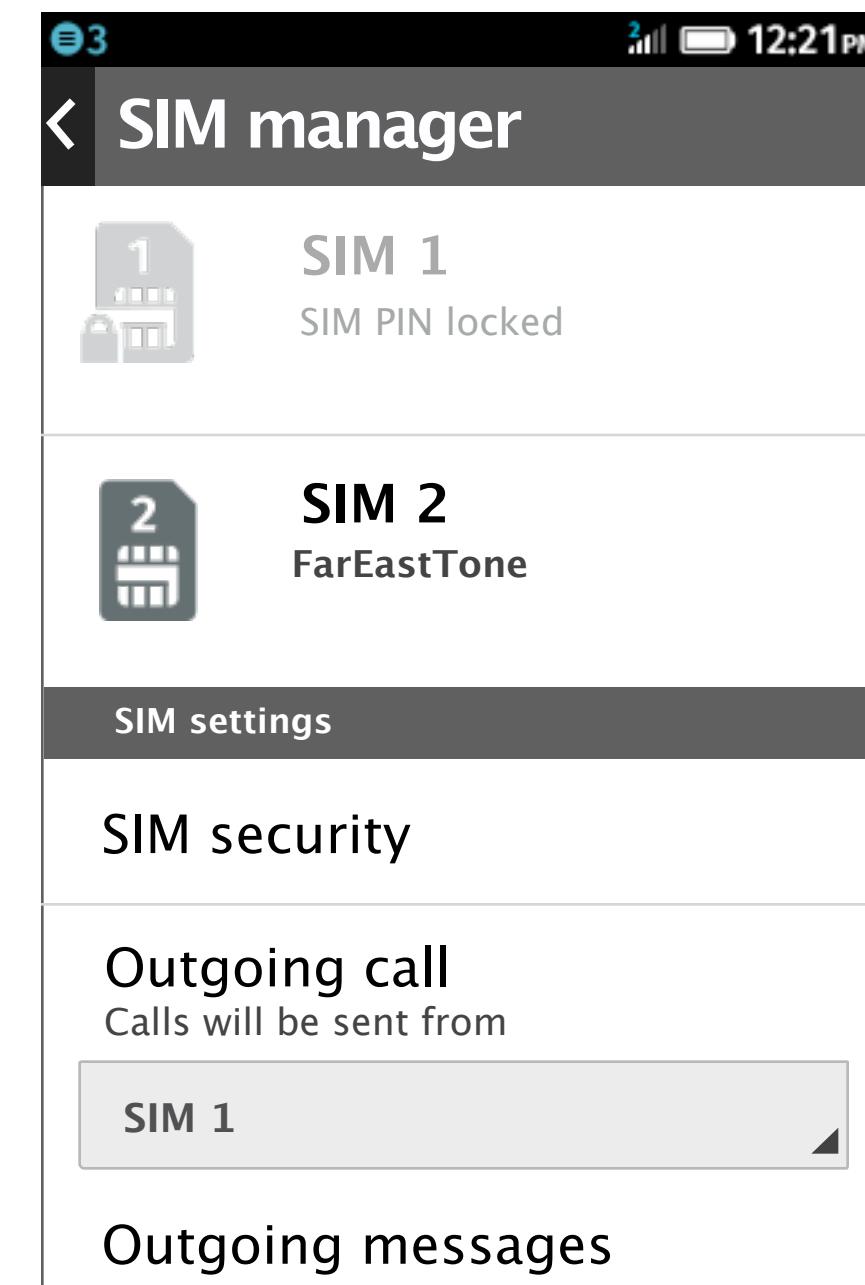
[No SIM inserted]



If the user remove both SIM, then the whole page will gray out and settings will show "--" rather than SIM names.

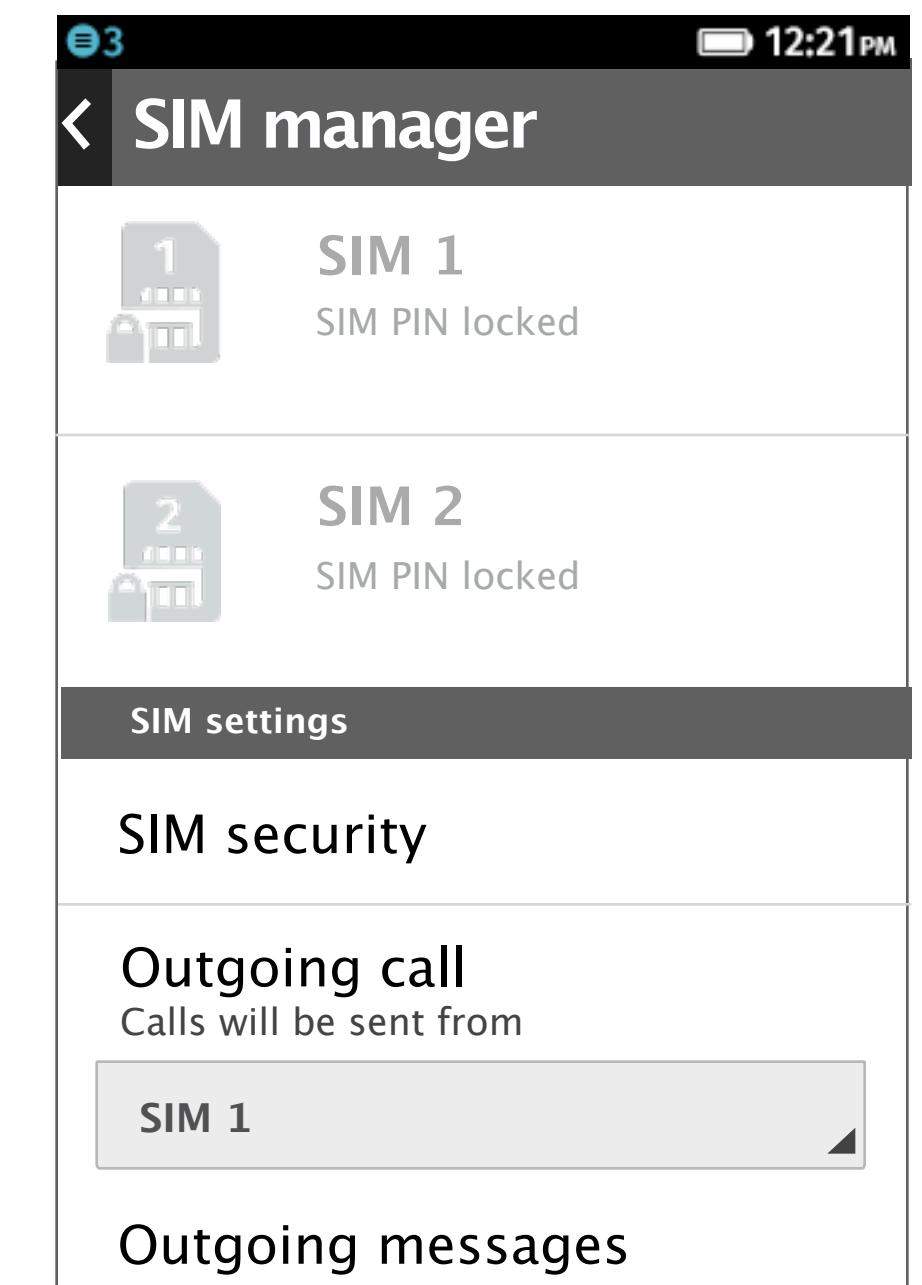
If the user insert one SIM back, the settings will set to it.
If the user insert both SIM back at the same time, the settings will set to default (SIM1).

[One SIM PIN locked]



If the user skip a SIM PIN, then all the settings will keep the same, but **it shows the SIM is locked in SIM manager.**

[Both SIM PIN locked]



If the user skip both SIM PIN, then all the settings will keep the same, but **it shows that the SIMs are locked in SIM manager.**

SIM slot status changed (2 SIM cards becomes 1 SIM card)

updated v0.1

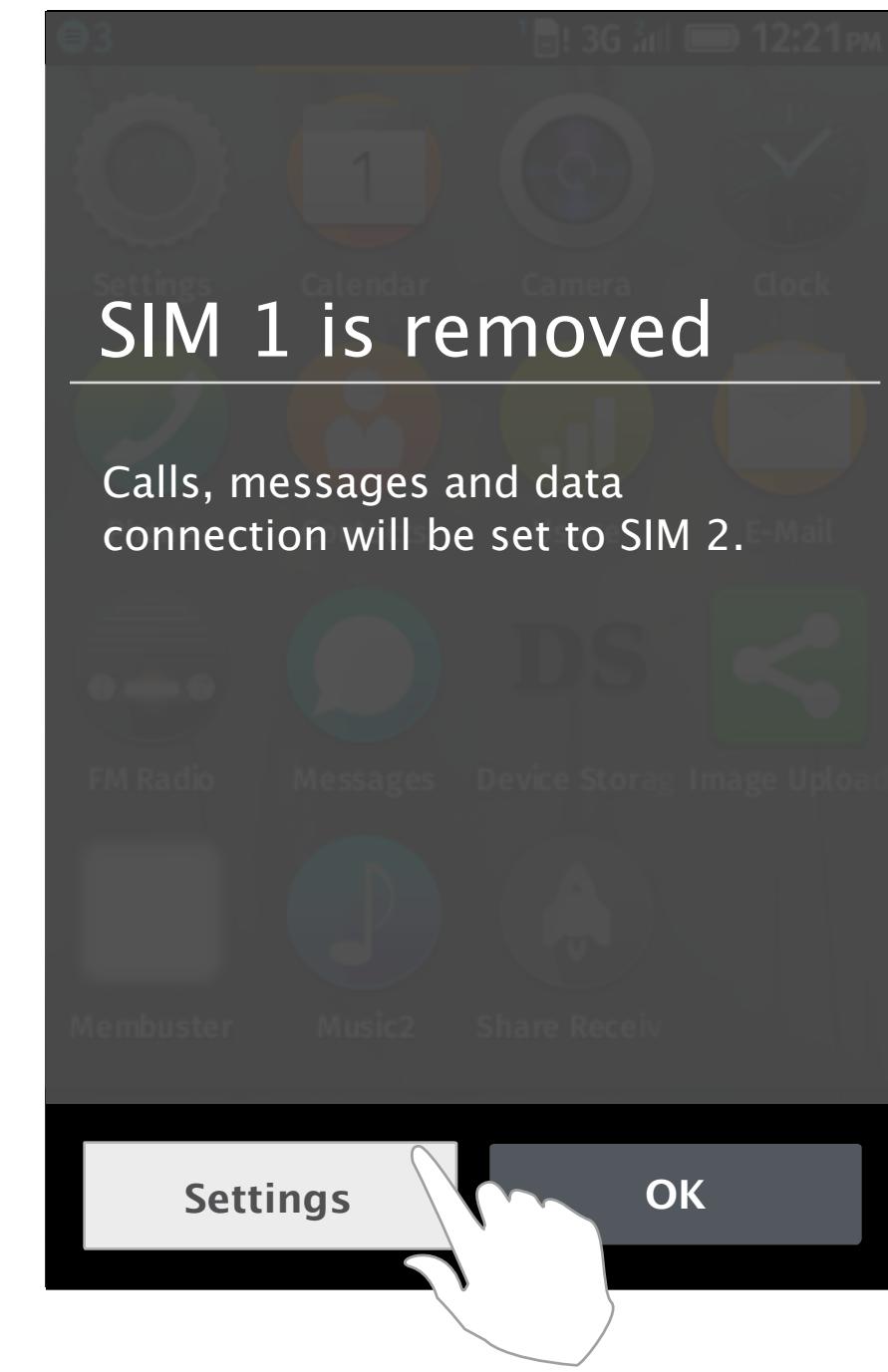
1. [Cards inserted and reboot the device]



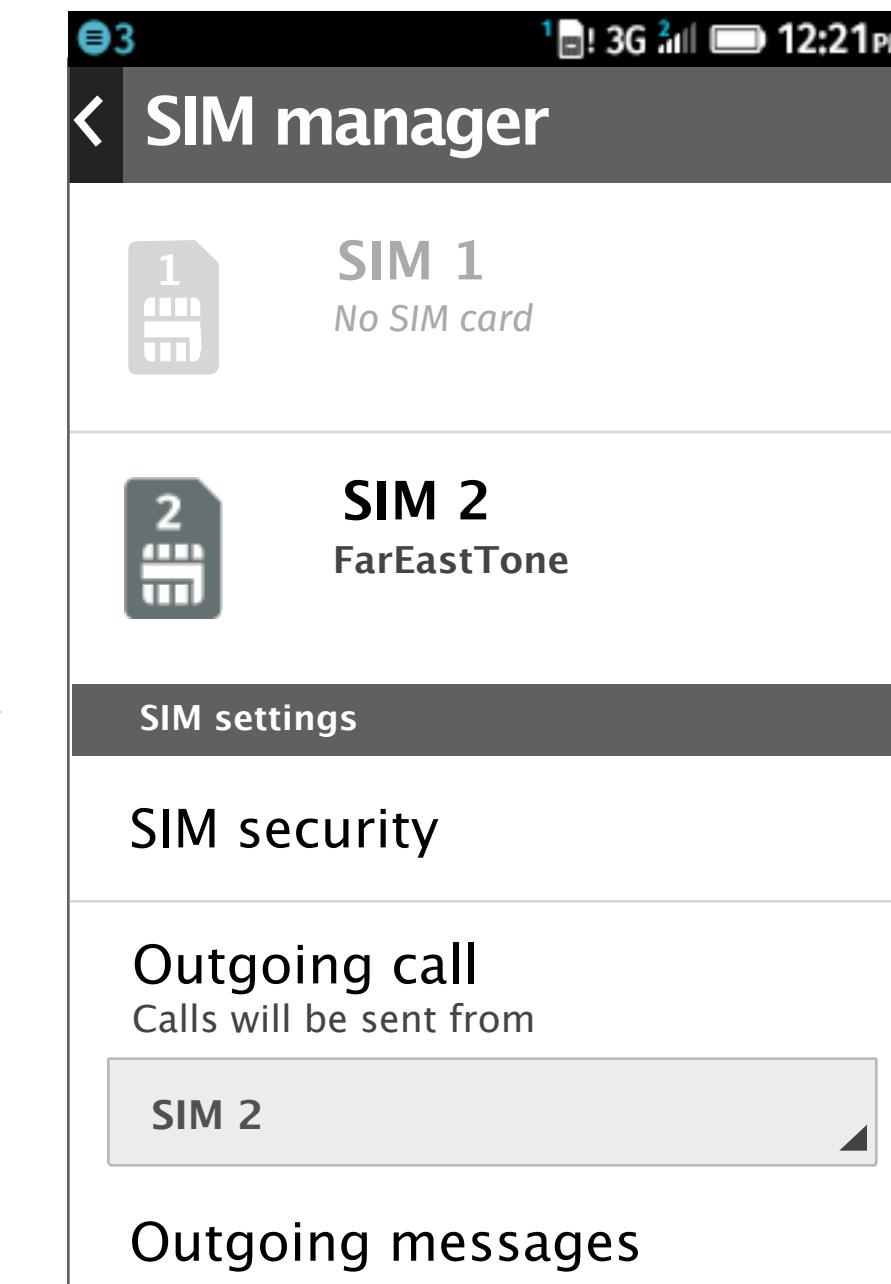
2. [Homescreen]



3. [Confirm window]



4. [SIM manager]



Users remove a SIM and restart the device.

After reboot and the PIN entry, users will be led to Homescreen.

If it's the case of removing a SIM (2 SIM becomes 1 SIM), the SIM slot can then detect the change.

The confirm window pops up to notify the user that all the settings will be set to the remained SIM.

Press "OK" to close the window.
Press "Settings" go to Screen 4.

Users can see that SIM 2 becomes the primary SIM card.

SIM slot status changed (1 SIM card becomes 2 SIM cards)

updated v0.1

1. [Cards inserted and reboot]



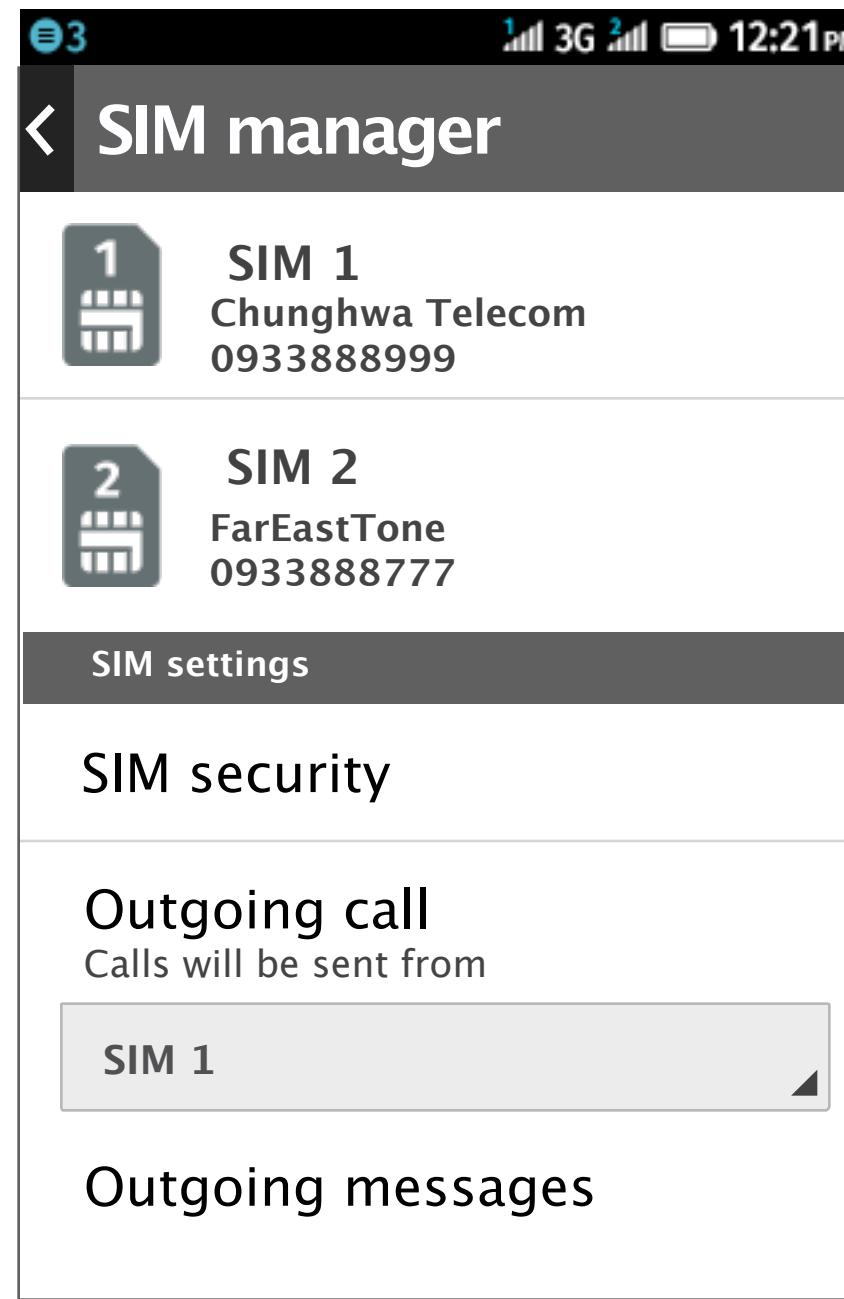
Unlock PIN
→

2. [Homescreen]



→

3. [SIM manager]



Users insert a SIM and the device is restarted.

After reboot and the PIN entry, users will be led to Homescreen.

If it's the case of inserting a SIM (1 SIM becomes 2 SIM), the SIM slot can then detect the change.

Note:

2 SIM → 1 SIM: Pop up a dialog

1 SIM → 2 SIM: Pop up SIM manager

2 SIM → No SIM: No action

No SIM → 2 SIM: Pop up SIM manager

2 SIM switch with each other:
No action

First Time Experience

FTE – dual SIM information (Two SIM cards inserted)

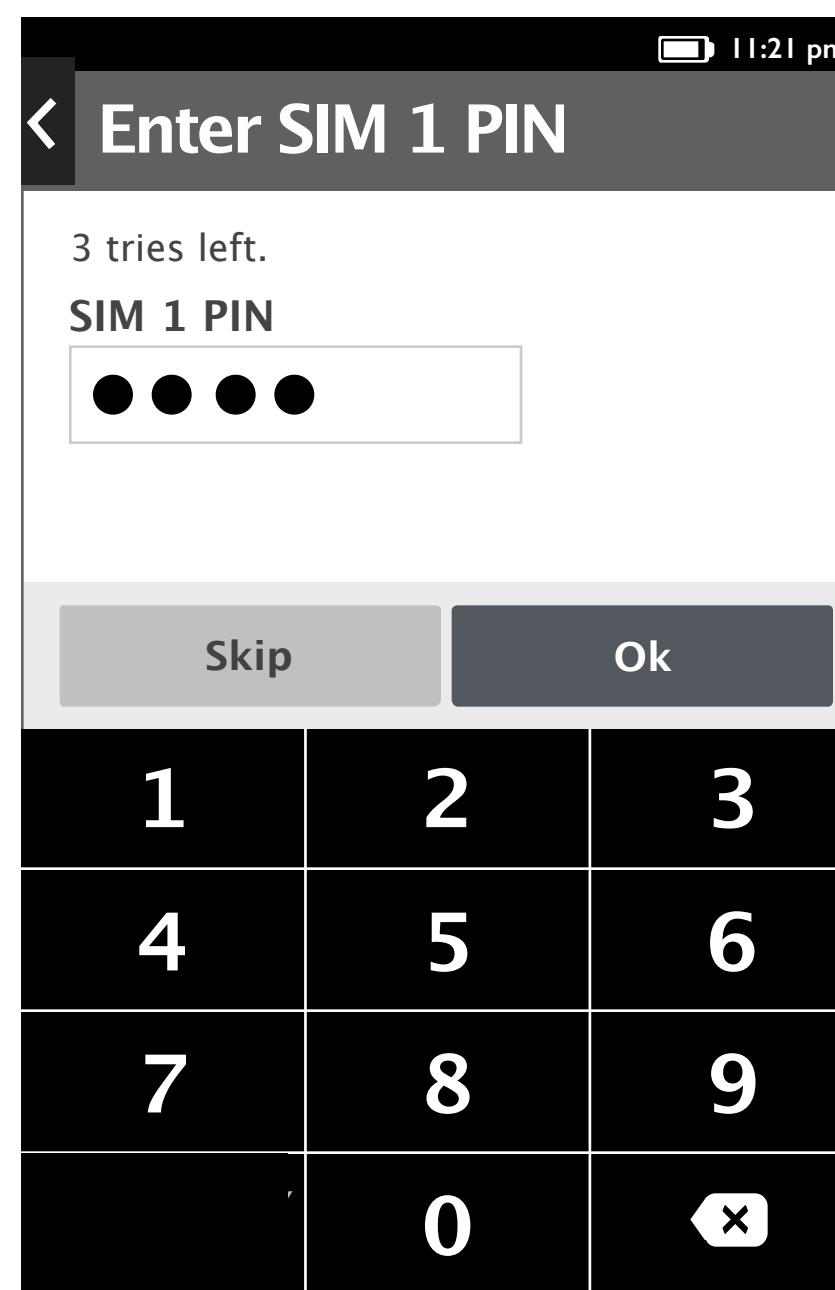
updated v0.1

1. [FTE_language selection]



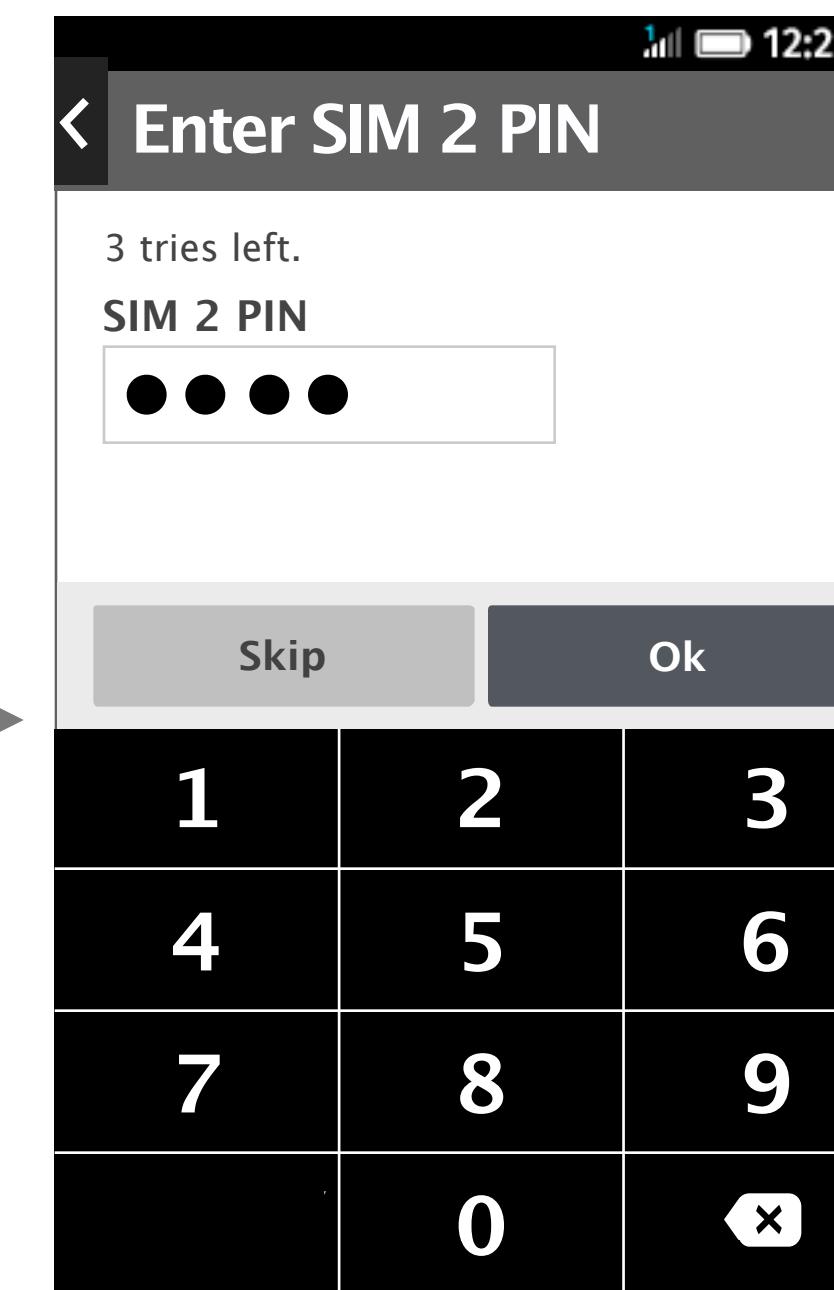
Tap Next

2. [Unlock SIM 1]



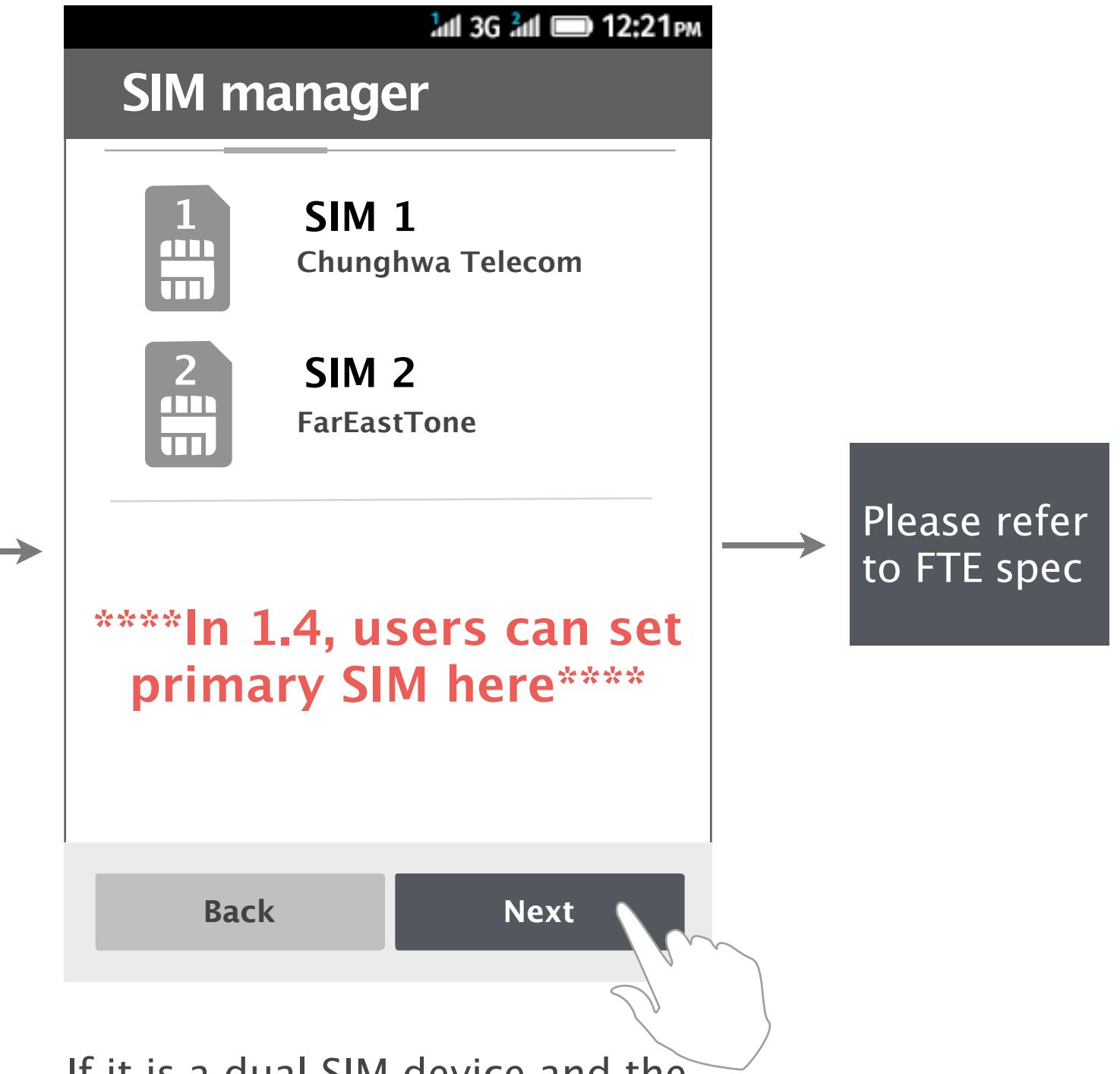
Tap OK

3. [Unlock SIM 2]



Tap OK

4. [FTE_SIM cards info]



Please refer to FTE spec

As the first step of FTE, users select the language for the device.

Input PIN for SIM 1.
Tap "Skip" or "OK" to Screen 3.
Tap "<" to go back to Screen 1.

Input PIN for SIM 2.
Tap "Skip" or "OK" to Screen 3.

If SIM 1 is unlocked, tap "<" will go back to Screen1.
If SIM 1 is still locked, tap "<" to get back to Screen 2.

If it is a dual SIM device and the SIMs are inserted, they will be led to SIM manager page after language selection.

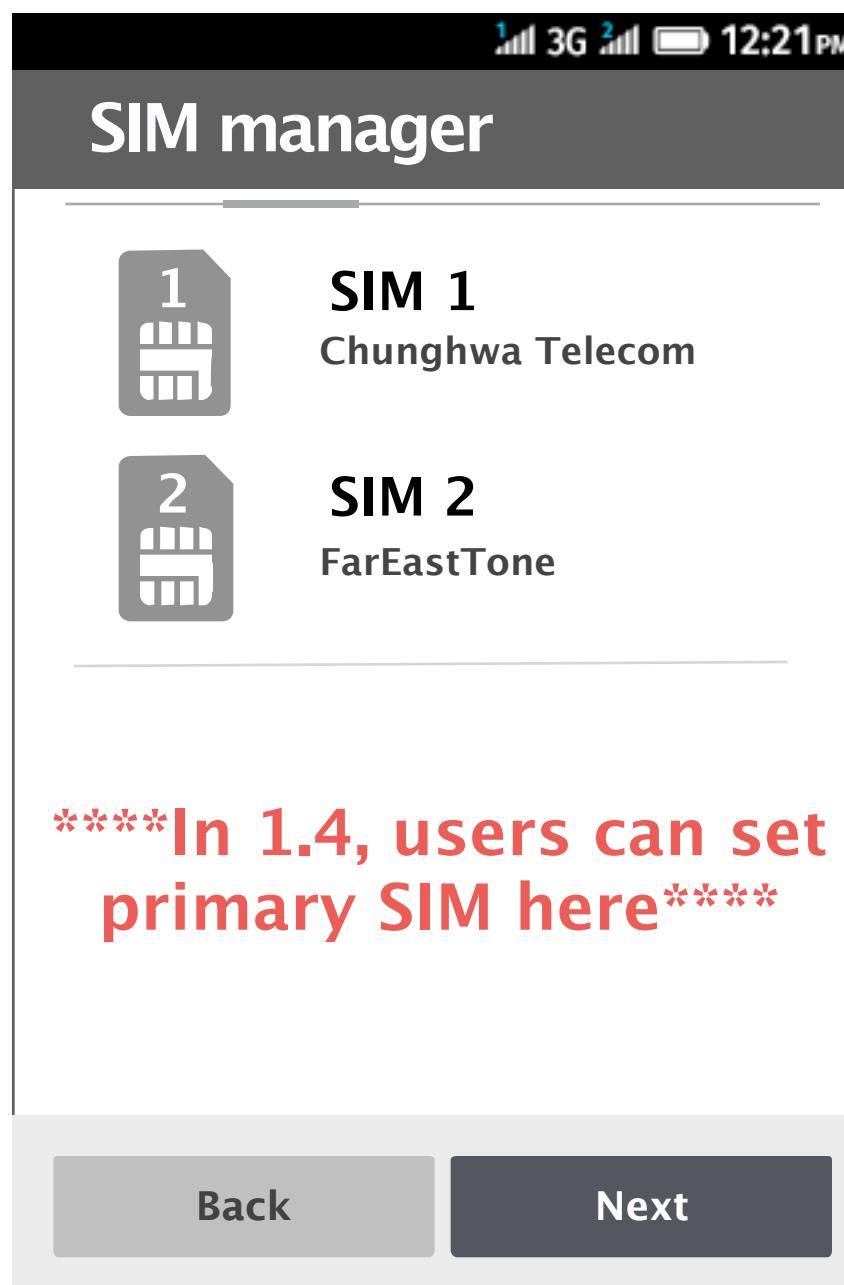
If users insert two cards, default settings are all set to SIM 1, but users can adjust the settings here in 1.4.

Tap "Back" to Screen 1.

FTE – SIM info page in different scenario

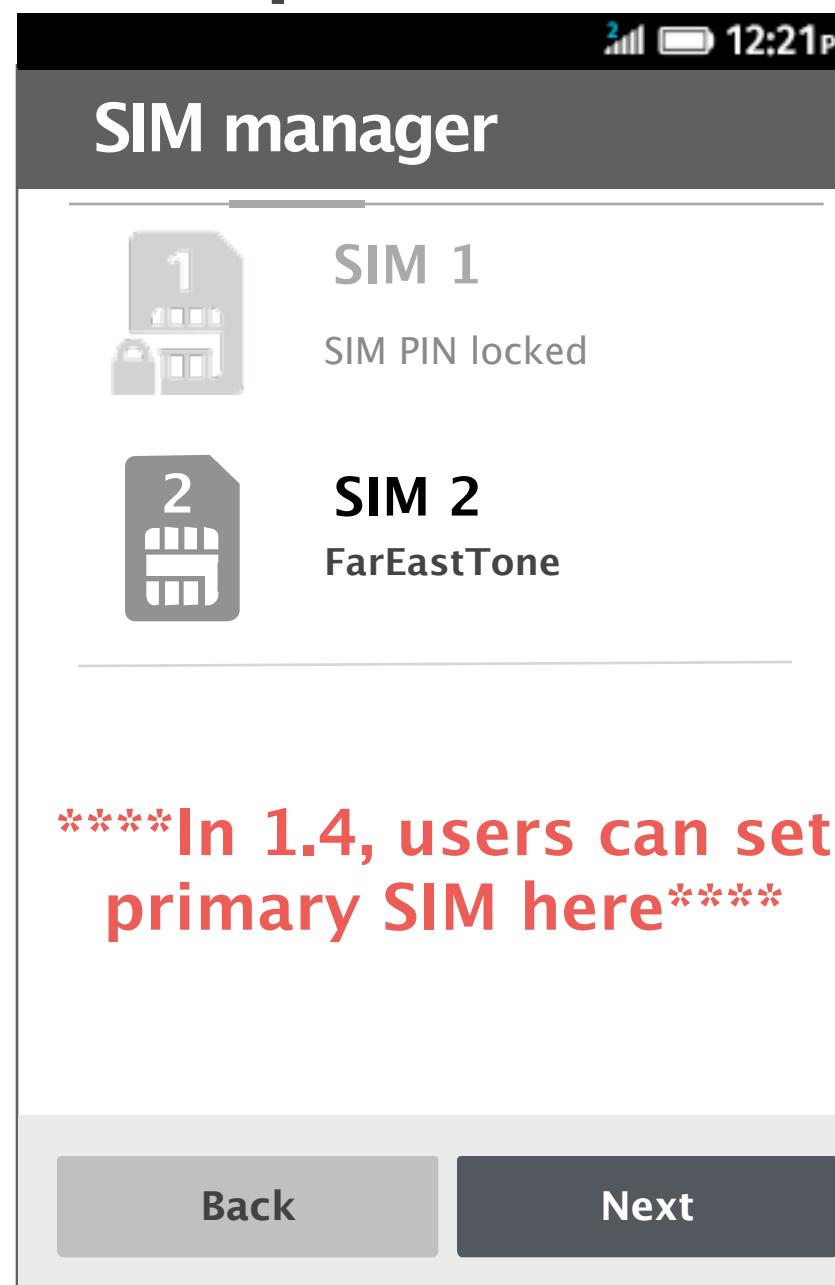
updated v0.1

[2 SIM inserted and unlocked]



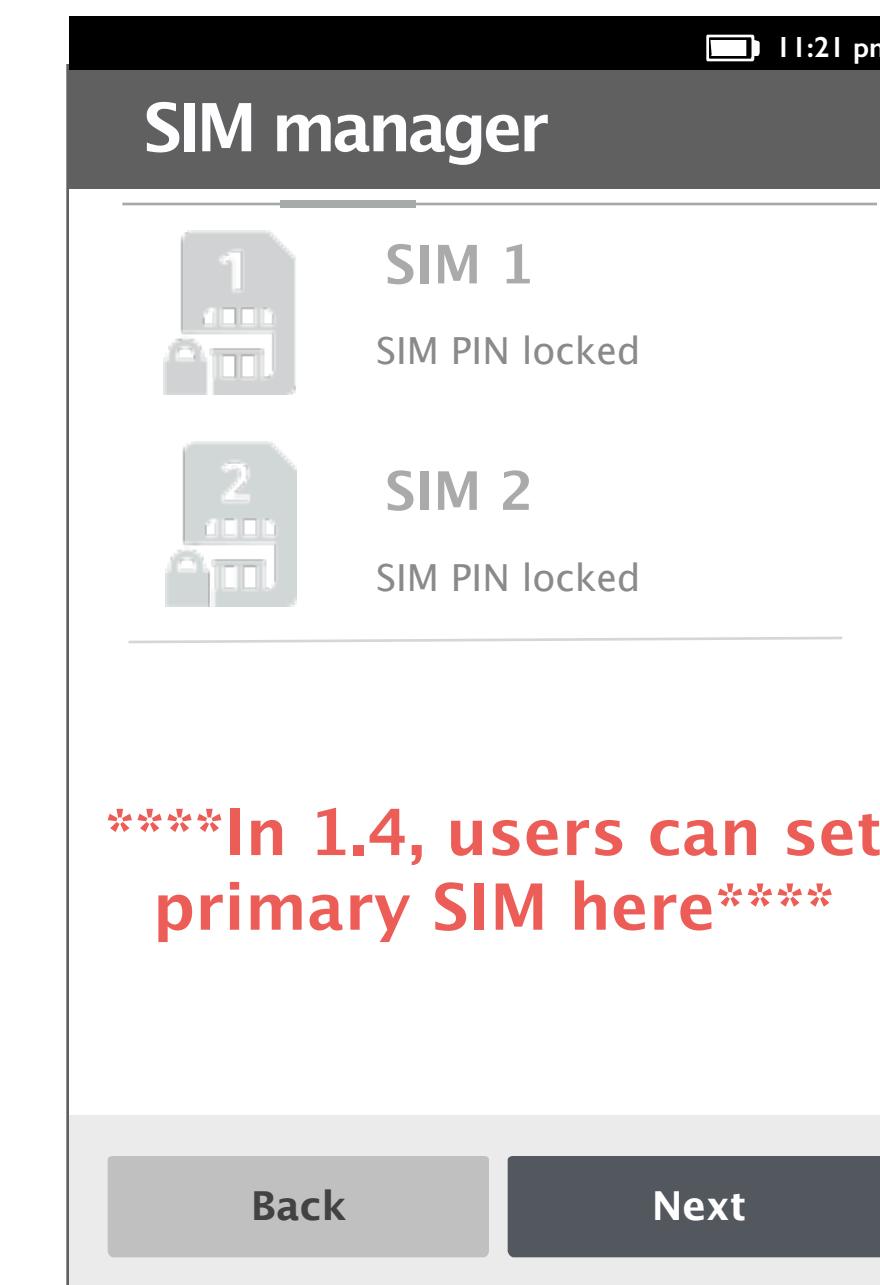
Both SIM inserted and unlocked:
SIM 1 is the default SIM.

[2 SIM inserted and only one unlocked]



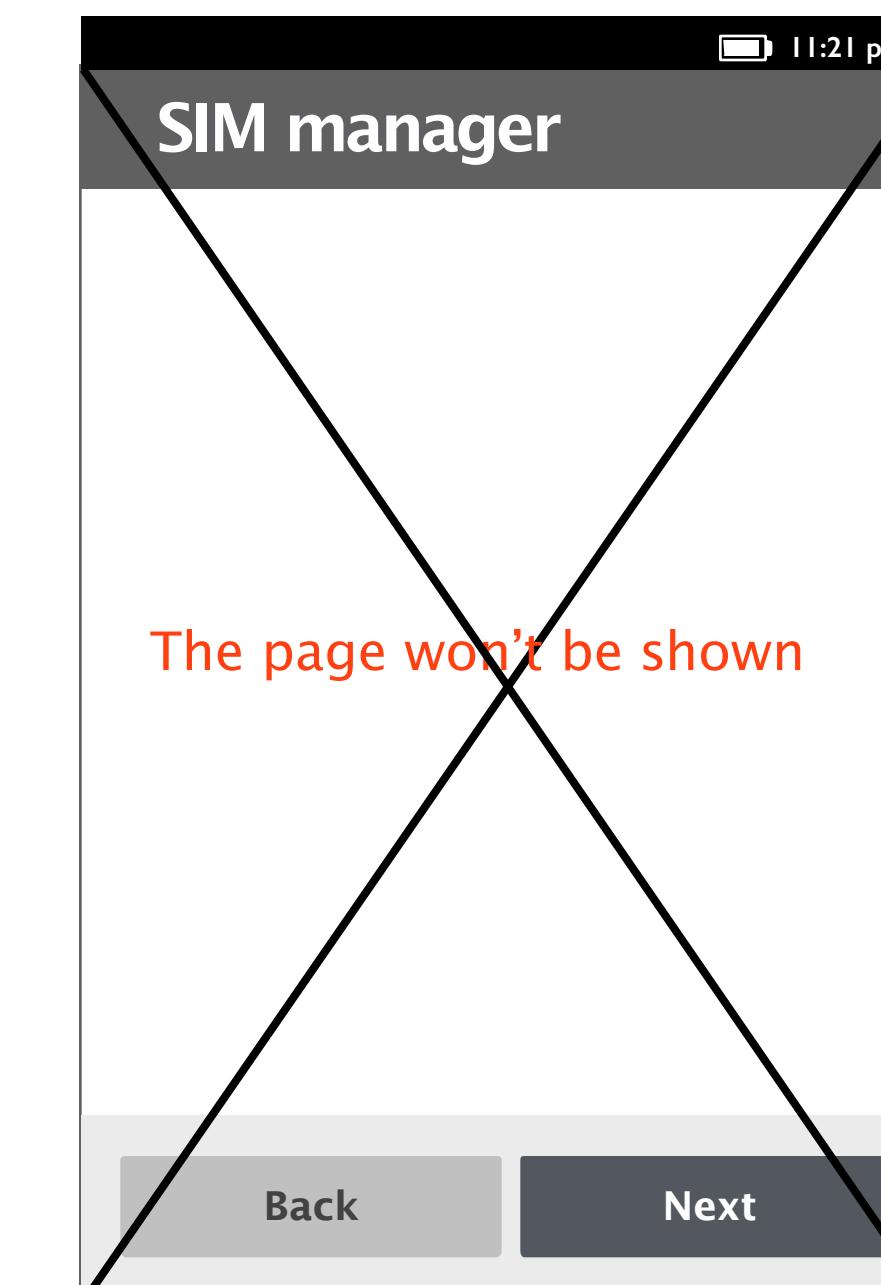
Both SIM inserted and one of them is locked.
The unlocked one will be the default primary SIM (pre-selected in settings), but users can adjust the settings here.
(They can select the locked one as primary SIM if they want.)

[2 SIM inserted and PIN locked]



Both SIM are inserted and locked:
SIM 1 is the default primary SIM (pre-selected in settings), but users can adjust the settings here.

[One or None SIM inserted]



If there is only one SIM inserted, then it will be set as default primary SIM, but this page won't show up in FTE.

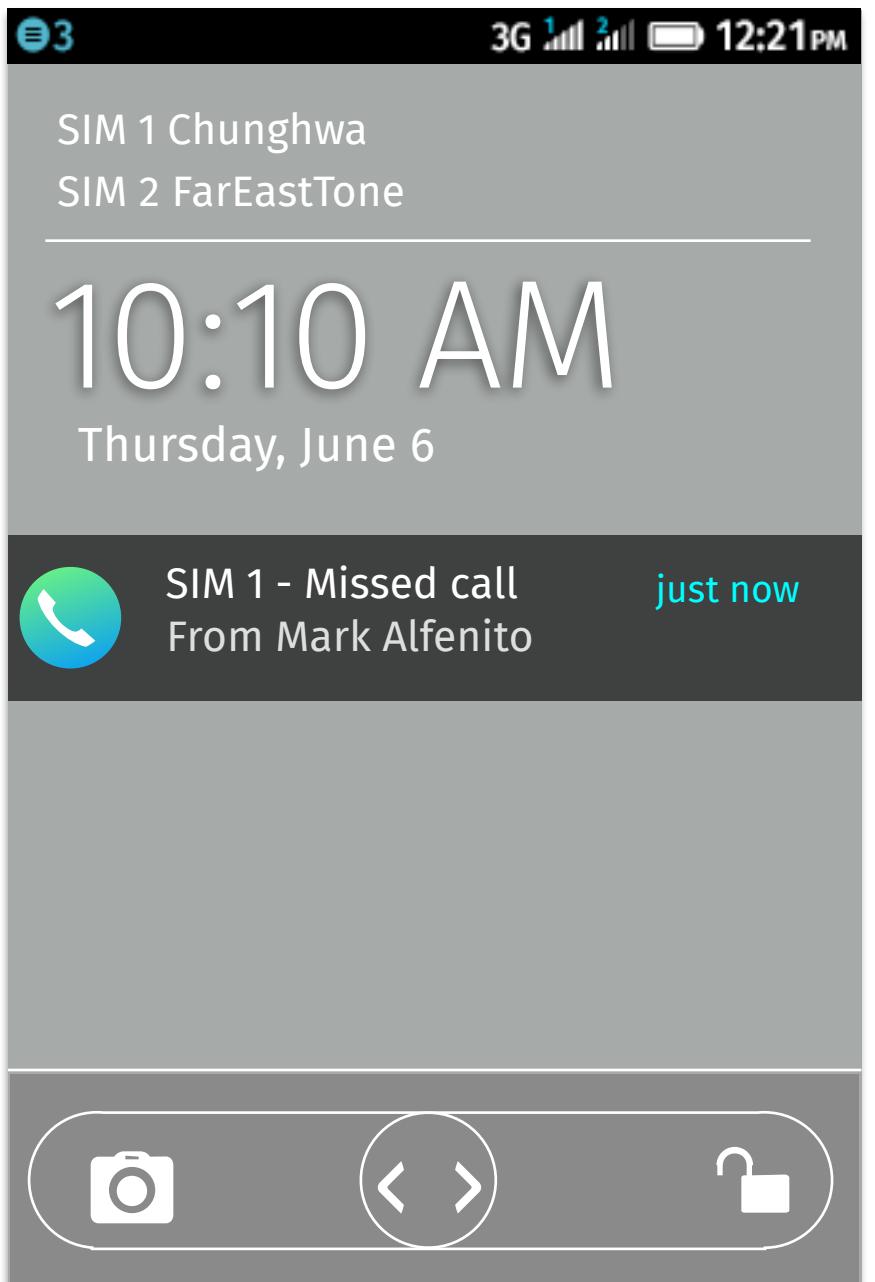
If there is no SIM inserted, this page won't show up either.

SIM indicator (apply to Notification/ Utility tray/ Lockscreen)

Notifications

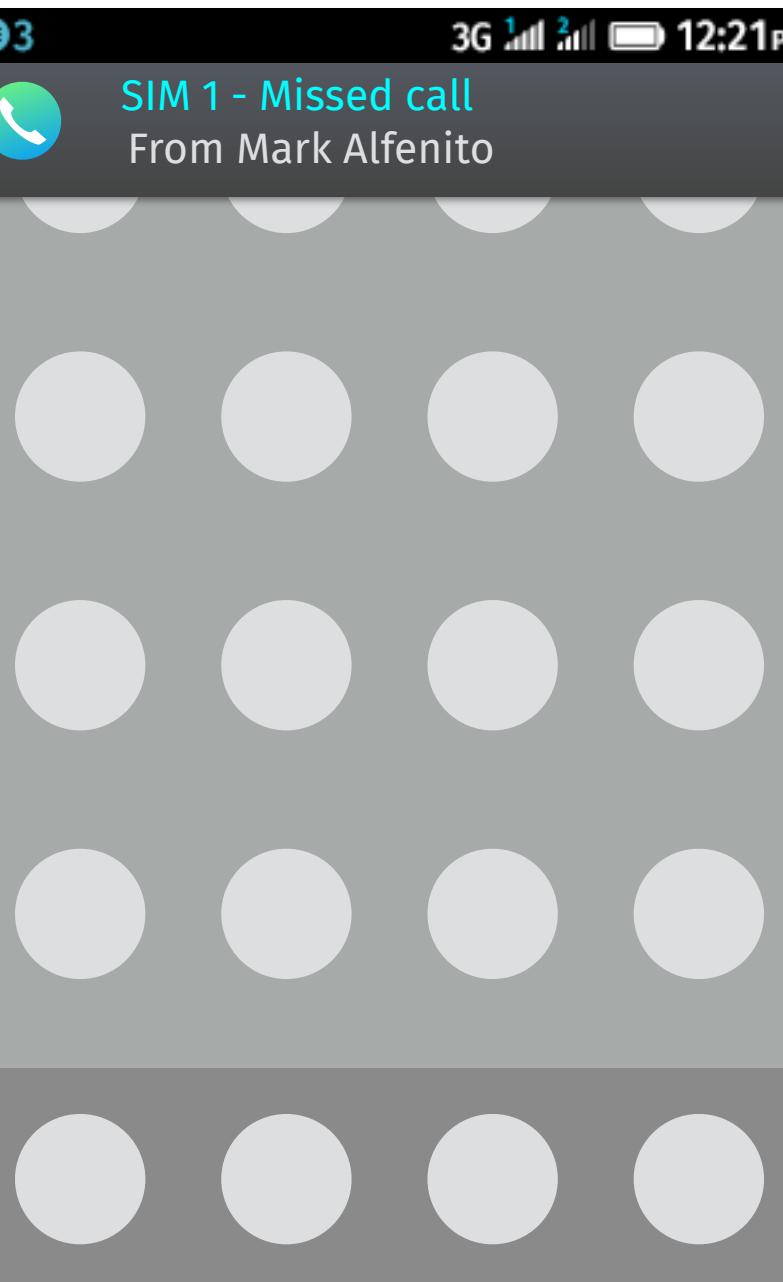
updated v 0.1

Notification on Lockscreen



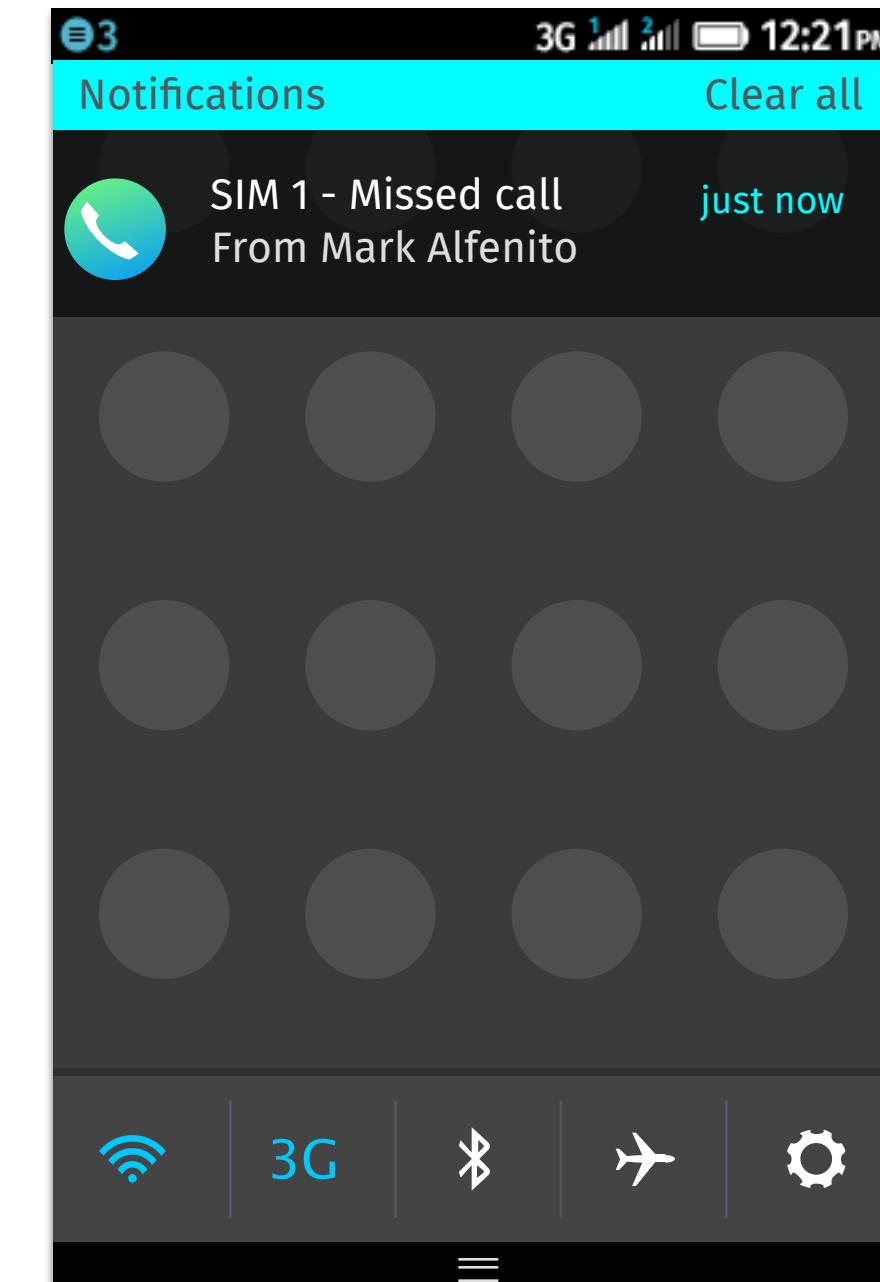
If the incoming call is missed, there will be a notification show on the Lockscreen and stay there until the user unlocks the screen. It indicates the call came on which SIM.

Dropped-down Notifications



If there is a missed call, a notification will drop down and indicate the call came on which SIM. It will disappear after seconds.

Notifications in utility tray



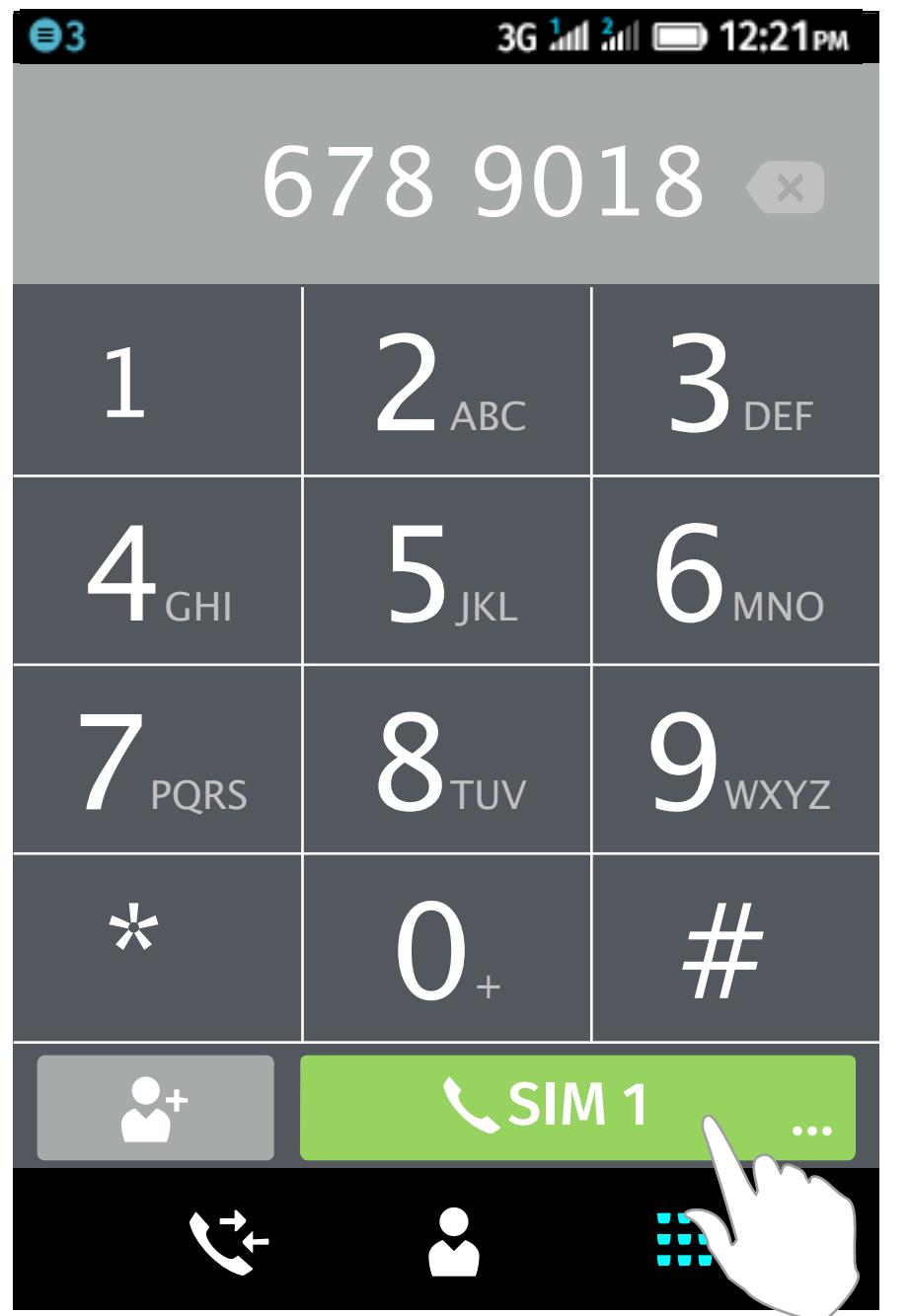
If there is a missed call, the user can drag down the utility tray to check the notification. It also indicates the call came on which SIM.
Tap it will be led to the call log.

Select SIM in APPS (apply to Dialer/ Messaging/ Contacts)

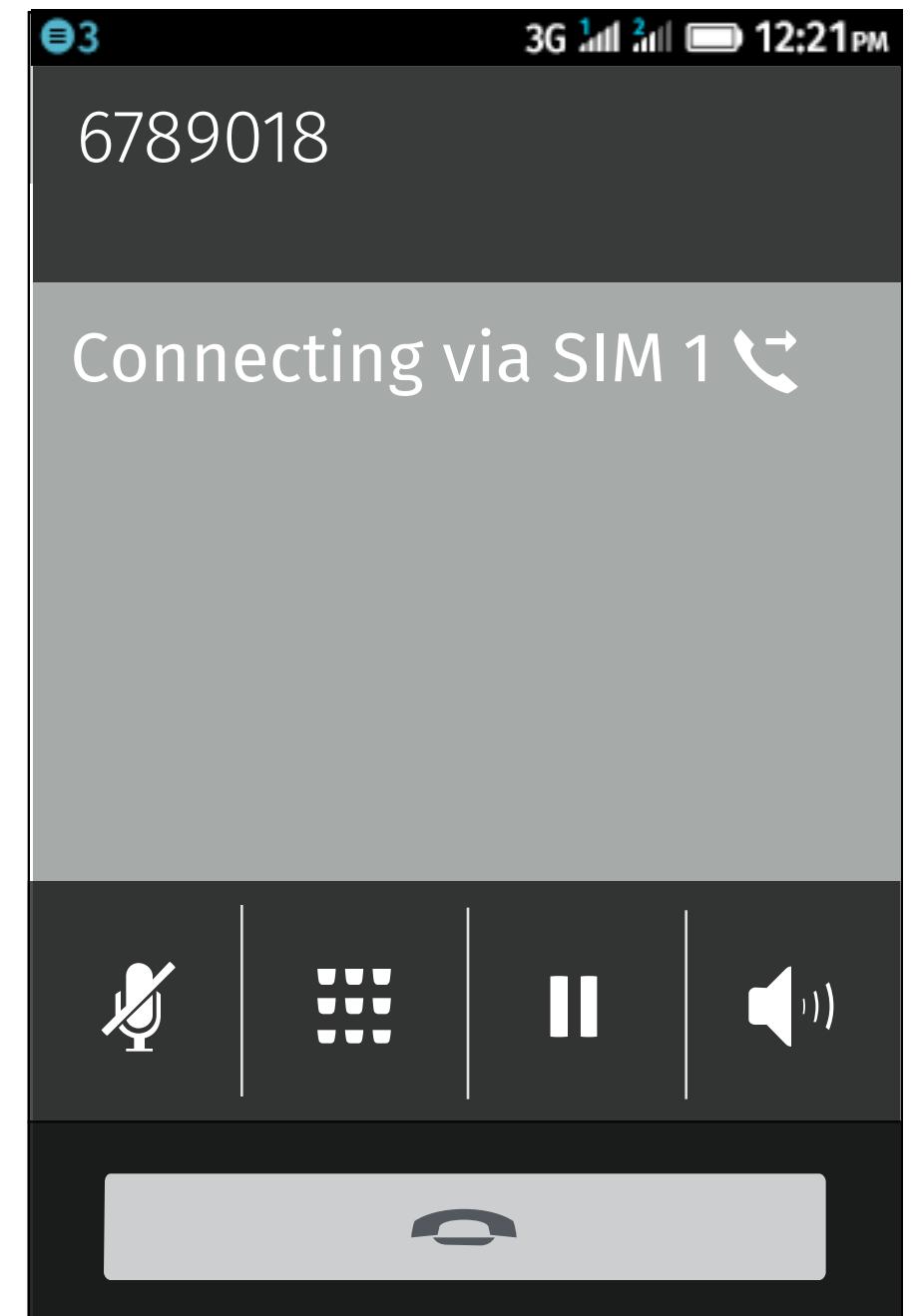
Case 1-1: Primary SIM- tap to call

updated v0.1

1.[Making calls from primary SIM]



2.[Call sending page]



The call button shows which SIM will be applied for outgoing calls.

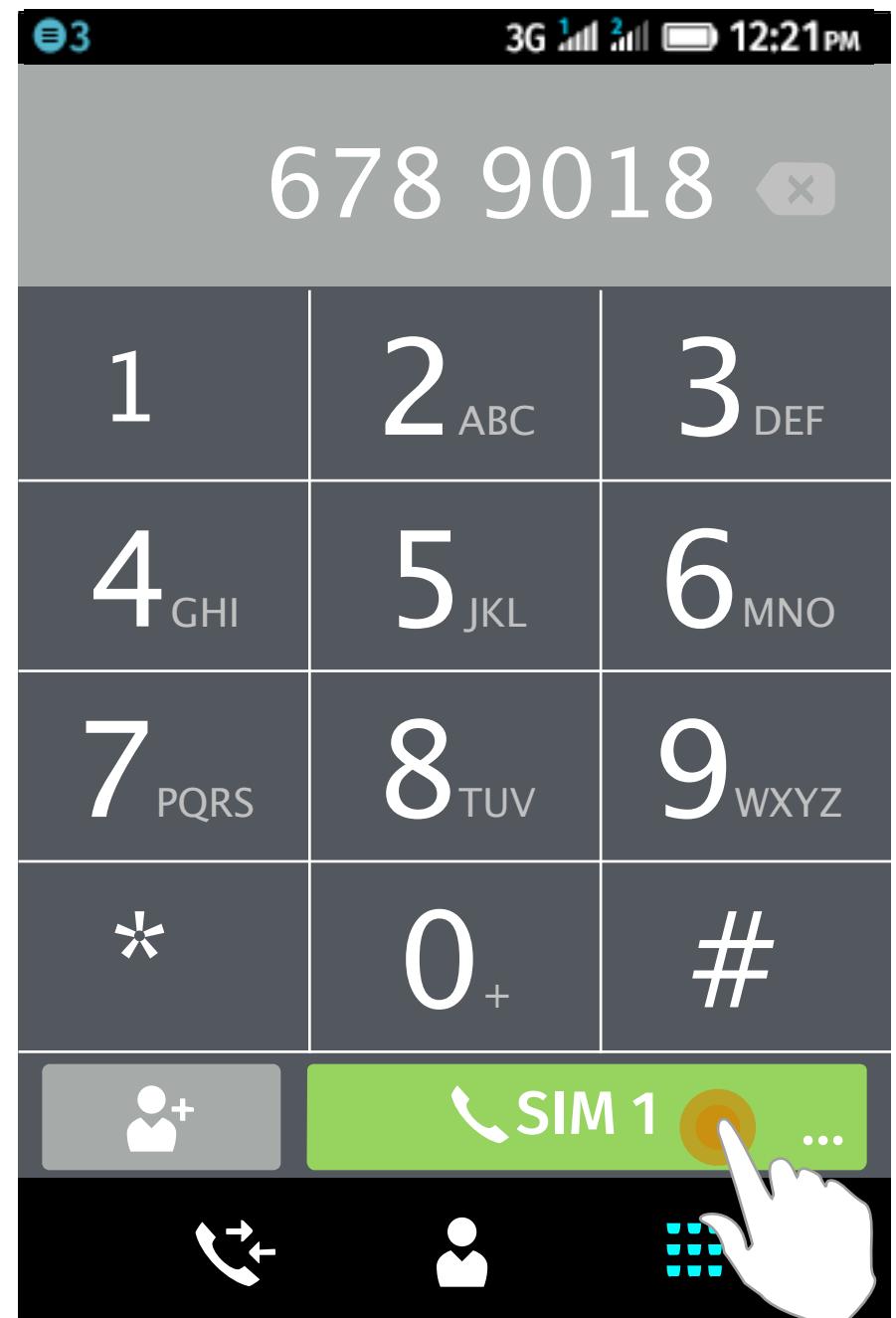
The user tap it to call out via SIM 1.

The call is made from SIM 1.

Case 1-2: Primary SIM- long tap to switch

updated v0.1

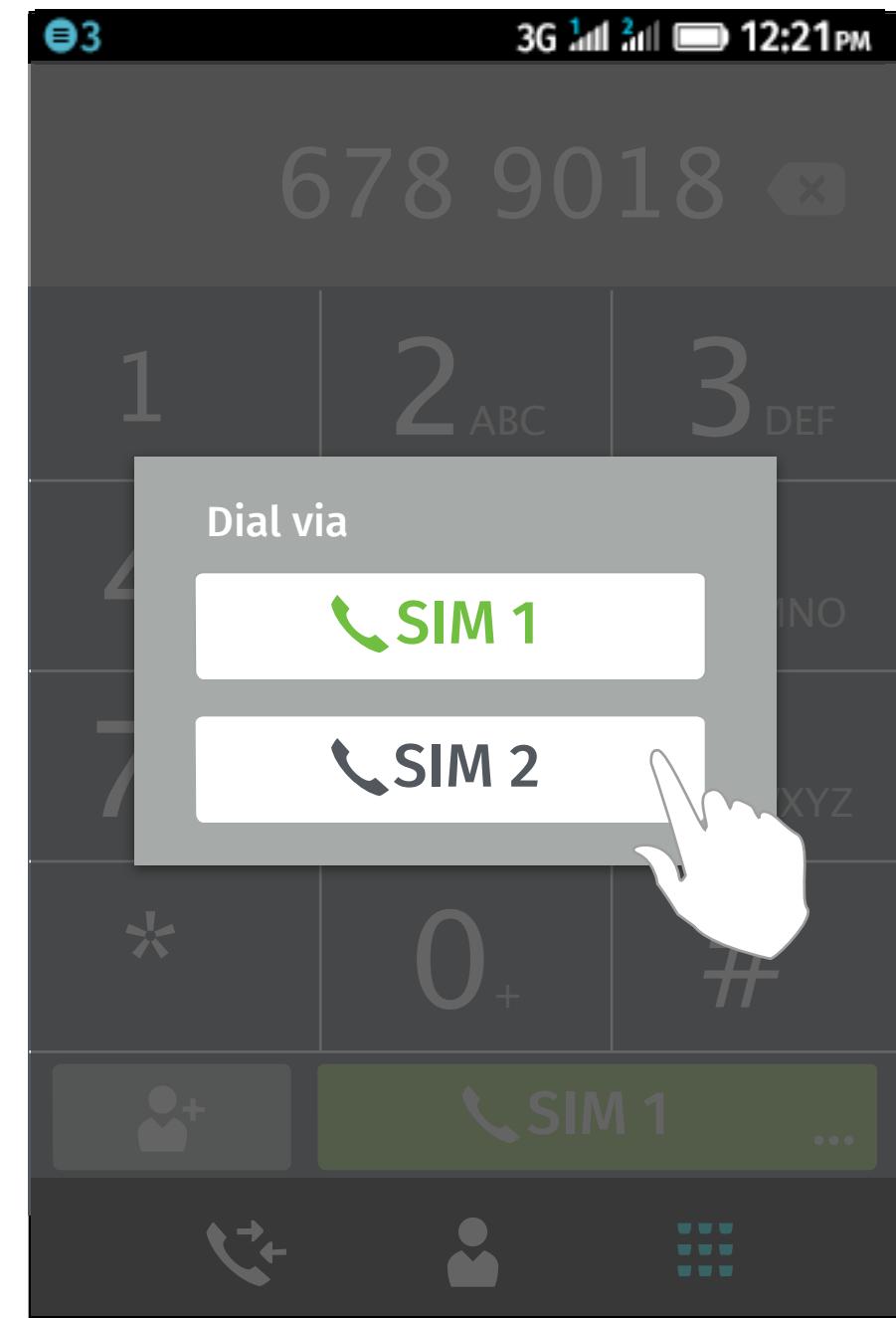
1. [Dialer]



The call button shows the SIM that will be applied for outgoing calls.

The user long-taps it for further selection.

2. [SIM picker]

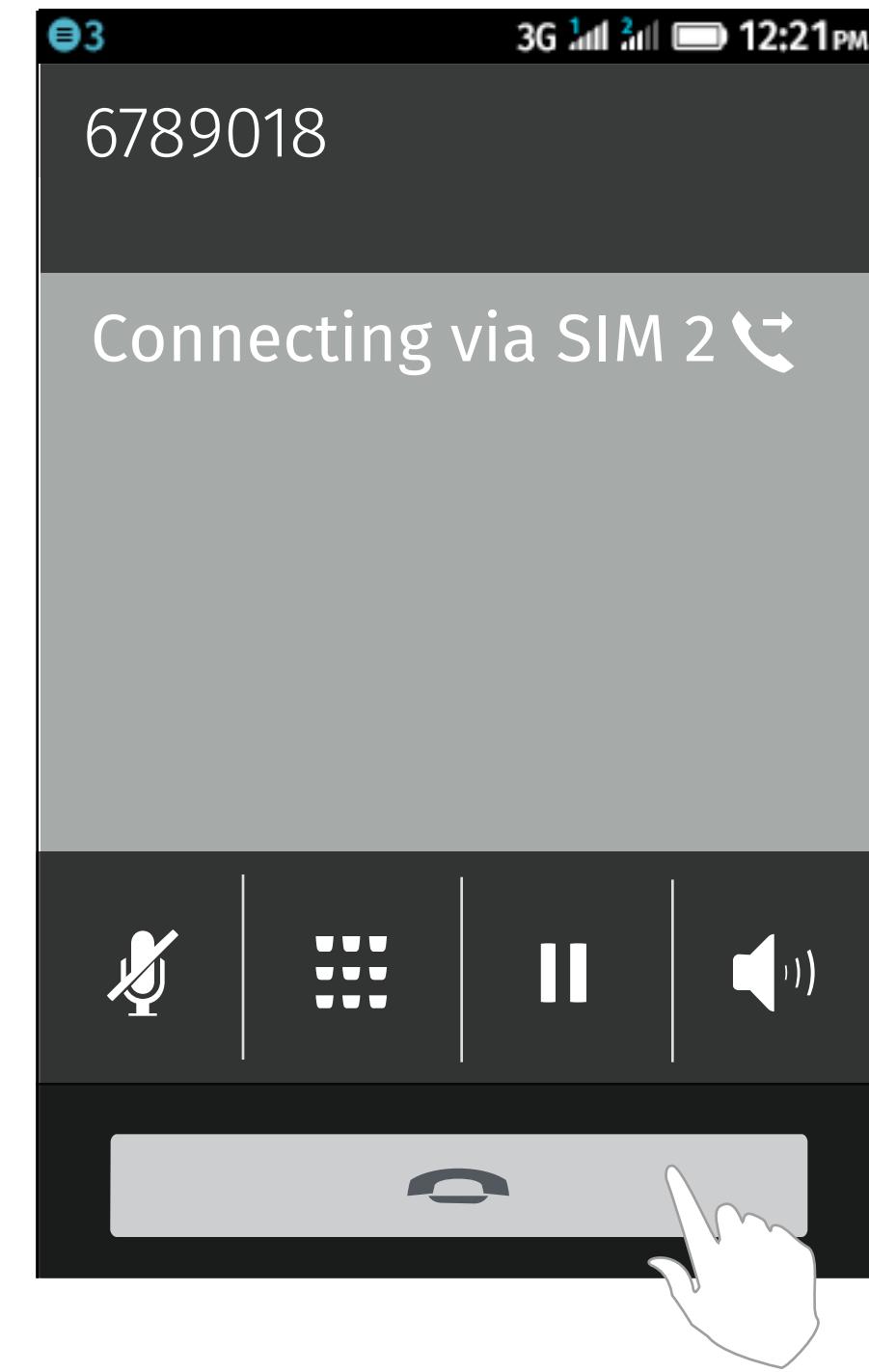


Long-tap
Call
button

The SIM picker pops up and the primary SIM for outgoing calls (SIM 1) will be highlighted.

The user wants to select SIM 2 to make this call.

3. [Placing the call]



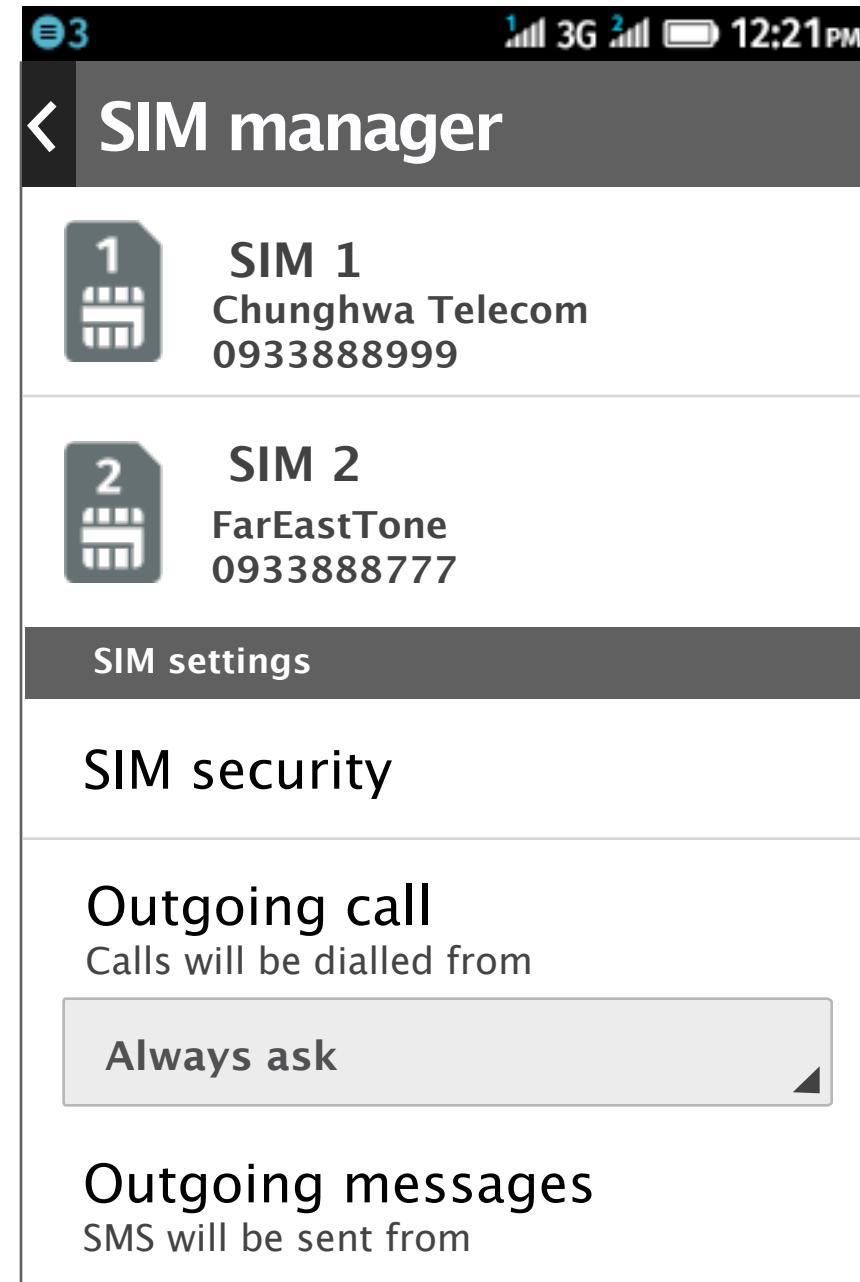
Tap
SIM 2

The call will be placed directly, but it's only for this specific call. The primary SIM won't be changed in SIM manager.

Case 2: Always ask- tap to select

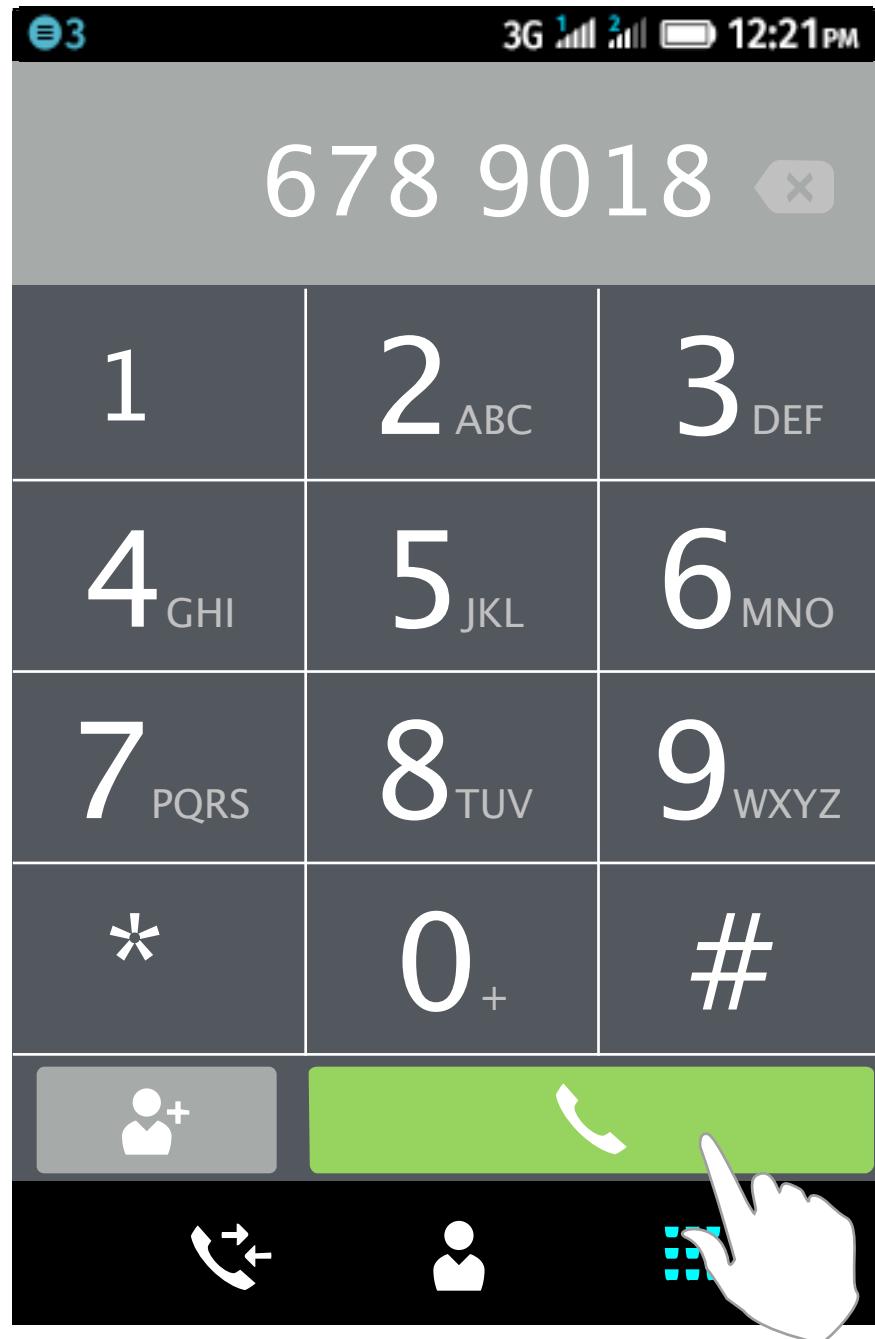
updated v0.1

[SIM manager]



The user selects “Always ask” for outgoing calls in SIM manager.

1.[Making calls from primary SIM]



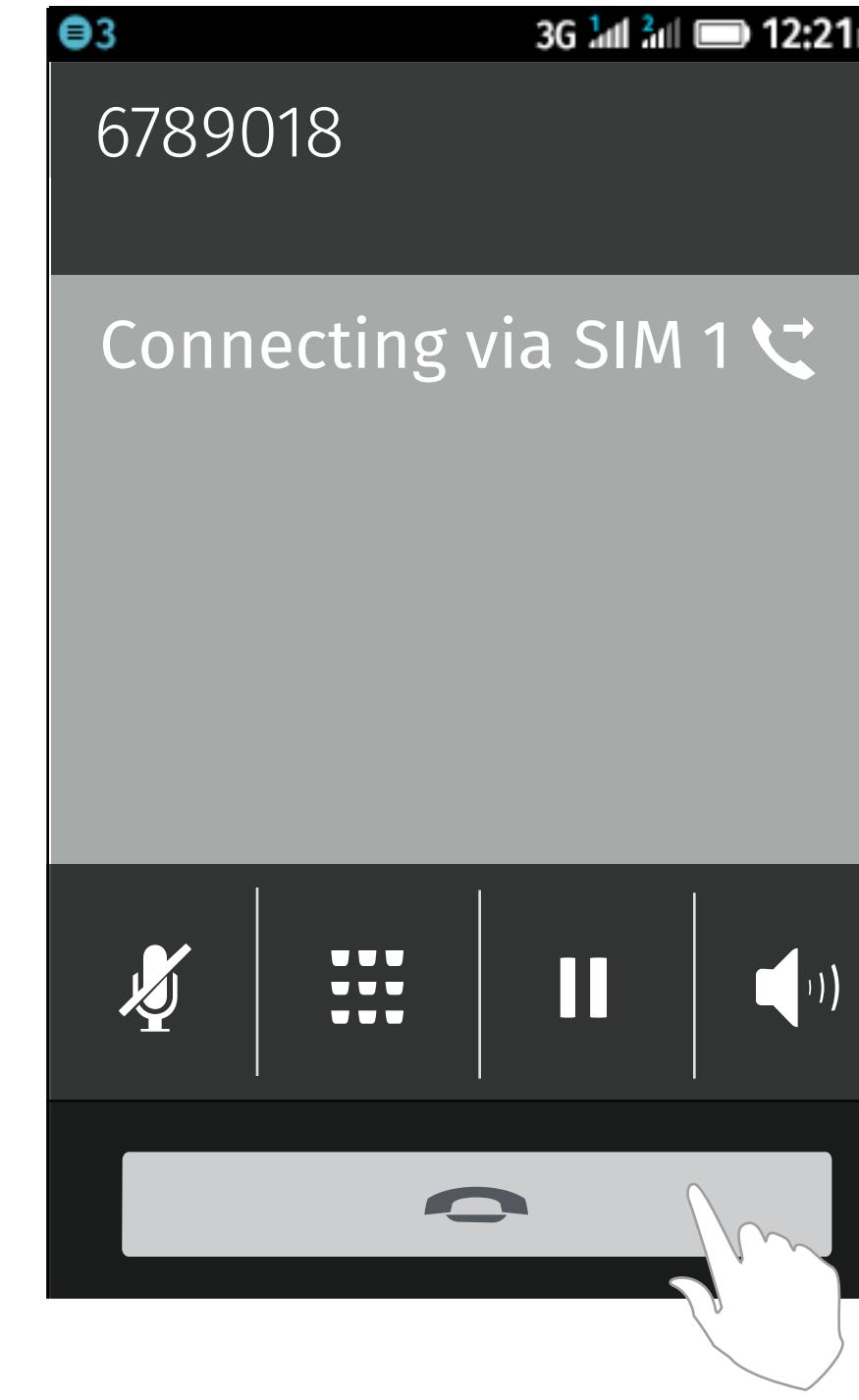
Since there is no “Primary SIM” for outgoing calls, the call button will be the same with what we have on single SIM devices.

2. [SIM picker]



The SIM selector will pop up every time and none of them will be highlighted. The user can select a SIM for this outgoing call.

3. [Placing the call]

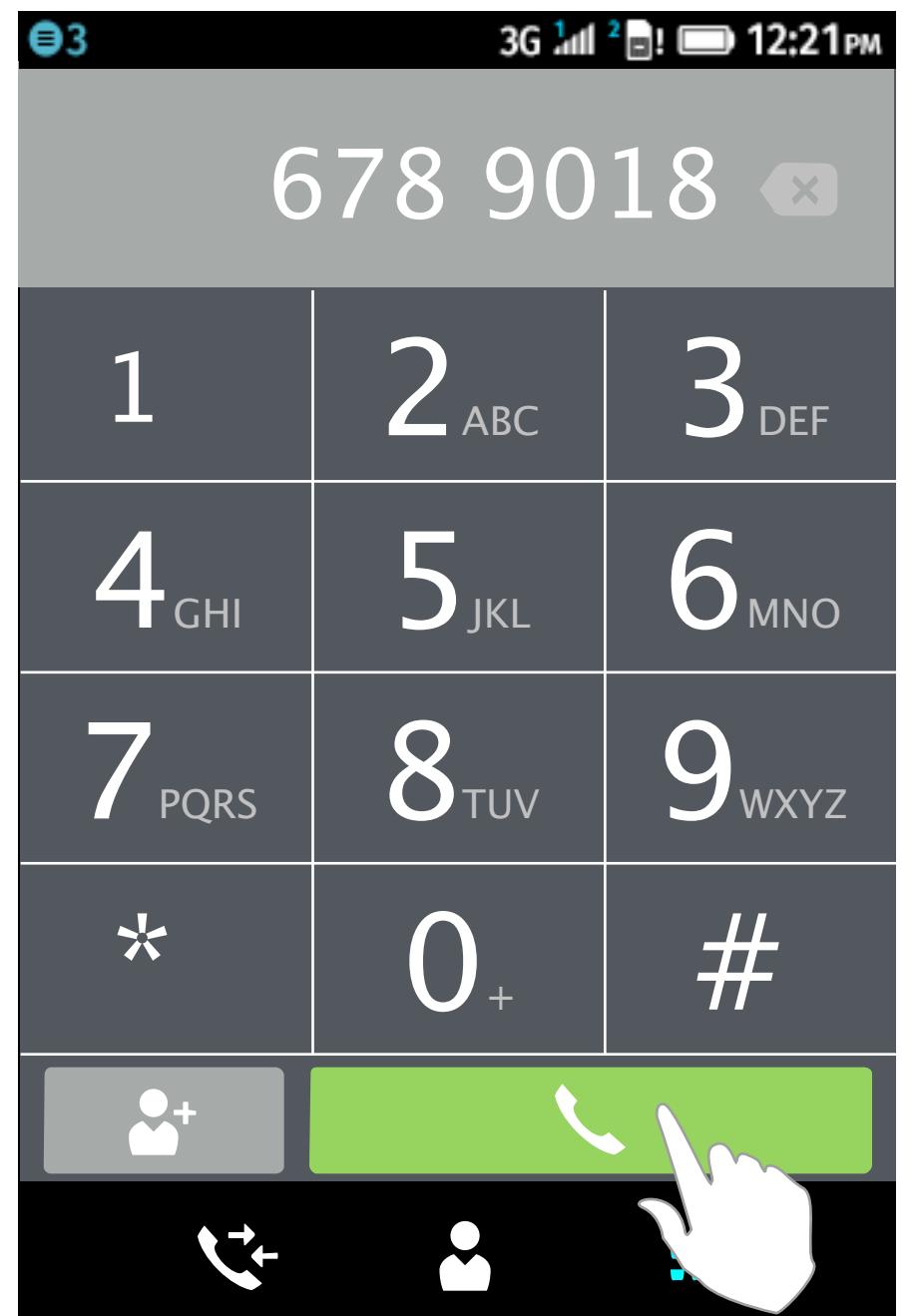


The call will be placed directly, but it's only for this specific call.

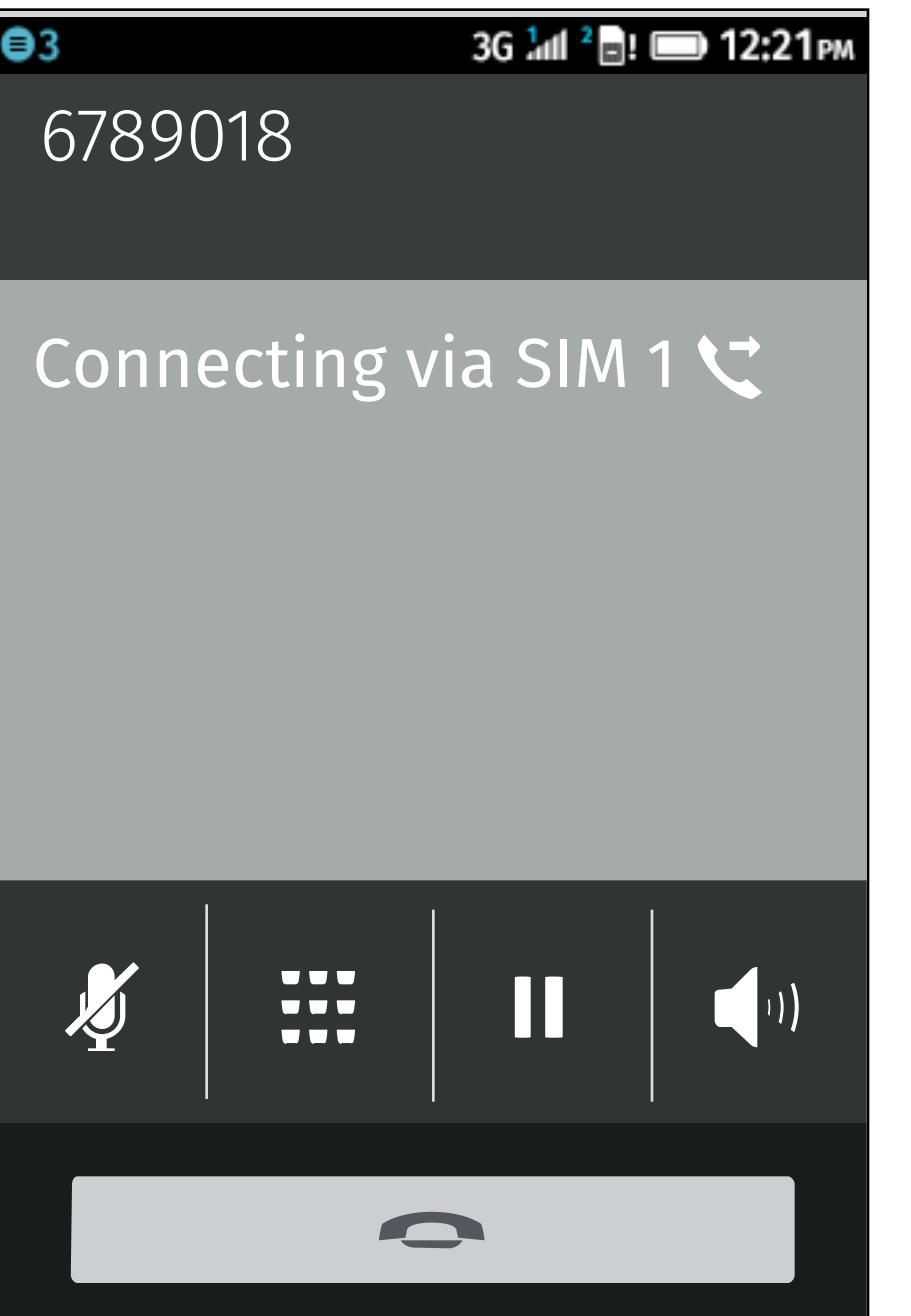
Dial when only 1 SIM inserted

updated v0.1

1.[Dialer]



2.[Placing the call]



There is only one SIM inserted.
Hence the behavior will be the
same as single SIM devices.

The call button can't be long-
tapped and it won't show which
SIM it is.

If the SIM is unlocked, the call
will be placed directly after the
user taps the call button.

Rules of dual SIM PIN

No SIM is locked:

- The device can receive any incoming calls/ messages for both SIM.
- Tap once on the call/ send buttons, then the outgoing calls/ messages will be sent from the primary SIM
- Long-tap the call/ send buttons, users can select another SIM to deliver the specific outgoing call/ message.
- The primary SIM of data connection provides internet connection.

One SIM is locked:

- The locked SIM can't receive any incoming calls/ messages.
- The user can still receive incoming calls and messages to the other SIM (unlocked one).

If a locked SIM is the primary SIM for outgoing calls/ messages:

- The SIM PIN entry page pops up when the user taps “call” button in Dialer/ Contacts/ Call log or the “send” button in Message APP or Import/ Export button in Contacts.

If a locked SIM is not the primary SIM for outgoing calls/ messages:

- If the user long-taps “call” button in Dialer/ Contacts/ Call log or the “send” button in Message APP to choose the locked SIM for function, the SIM PIN entry page will pop up.

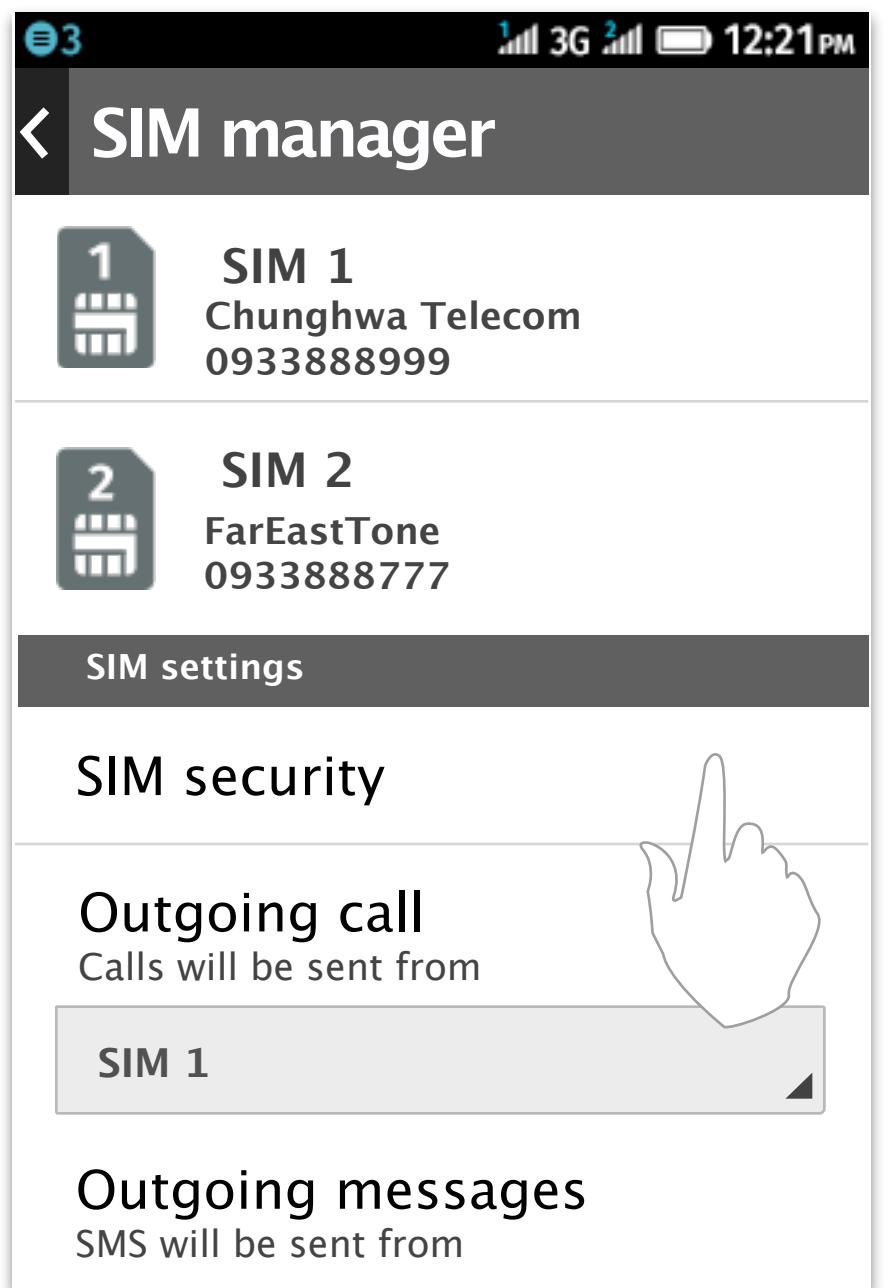
Both SIM are locked:

- The device can't receive any incoming calls and messages.
- The corresponding PIN entry page of the locked SIM pops up when the user taps “call” button in Dialer/ Contacts/ Call log or the “send” button in Message APP or Import/ Export button in Contacts.
- The corresponding PIN entry page of the locked SIM pops up after the user long-taps the button and select a SIM for function.

Edit SIM PIN

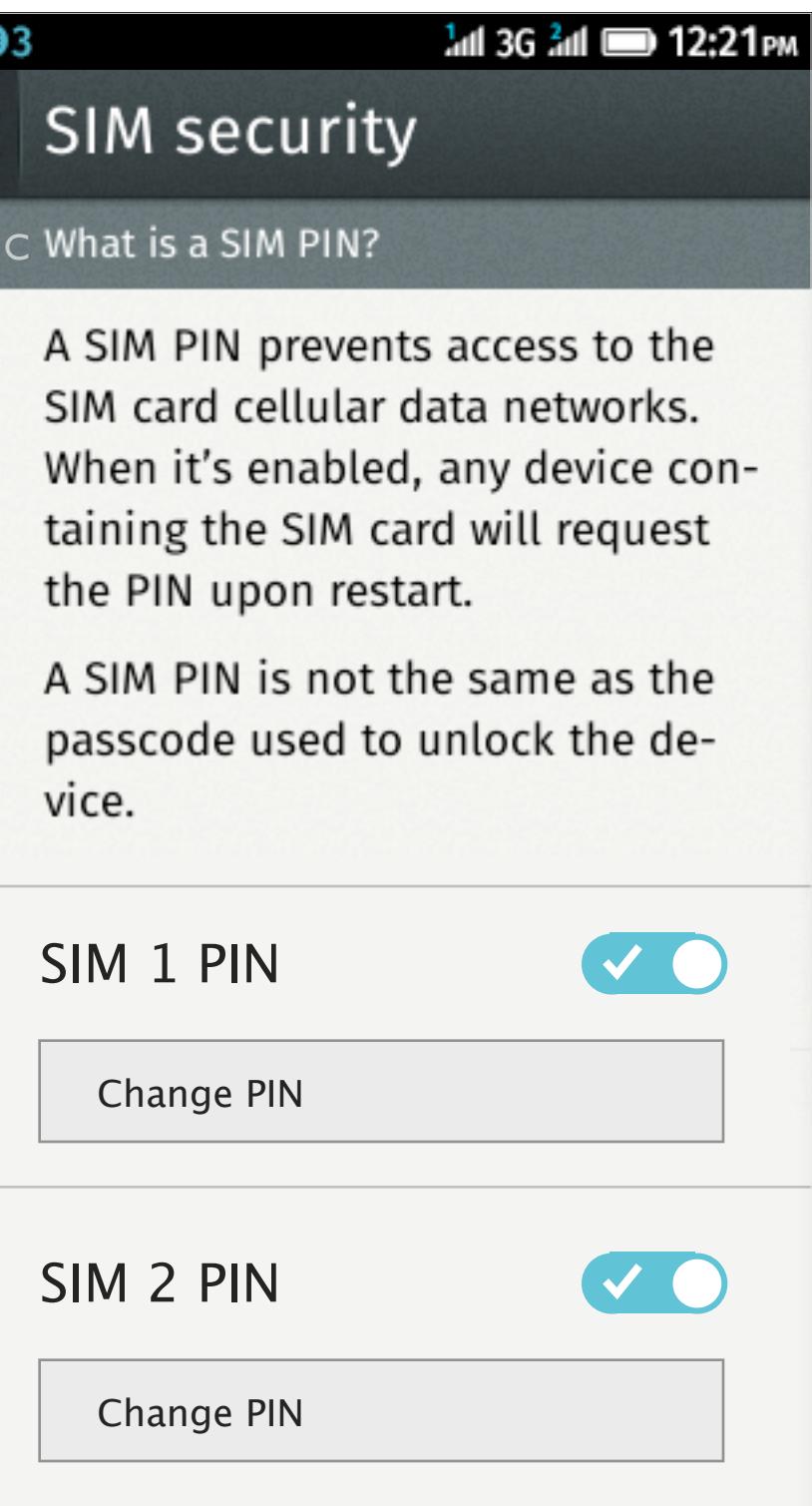
updated v0.1

1. [SIM security]



The SIM security is moved from settings to SIM manager so that users can do all SIM-related settings here.
No icon and no subtitle here.

2. [SIM PIN Edit]



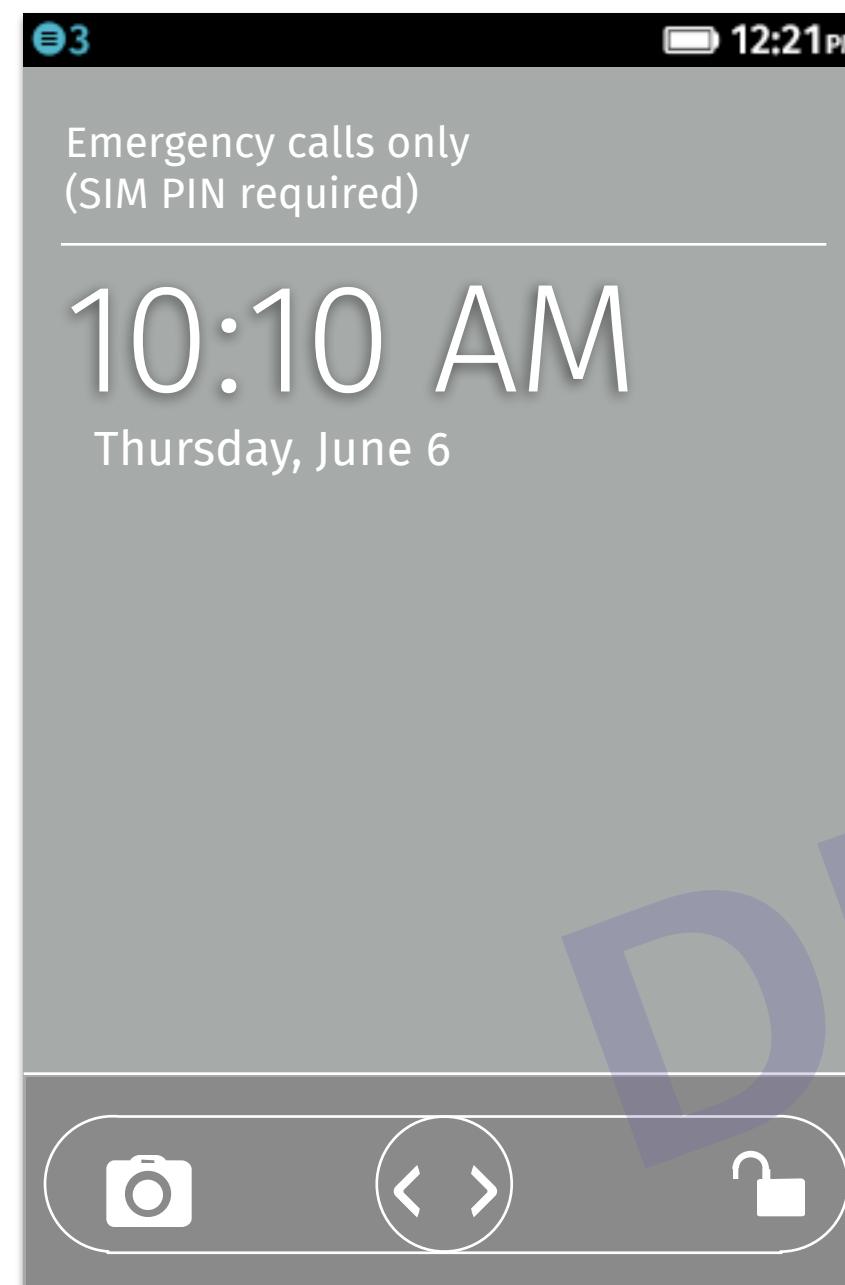
The user can switch it on/off for SIM PIN and tap "Change PIN" to set new PIN code.

The item will be grated out if the SIM is not inserted.

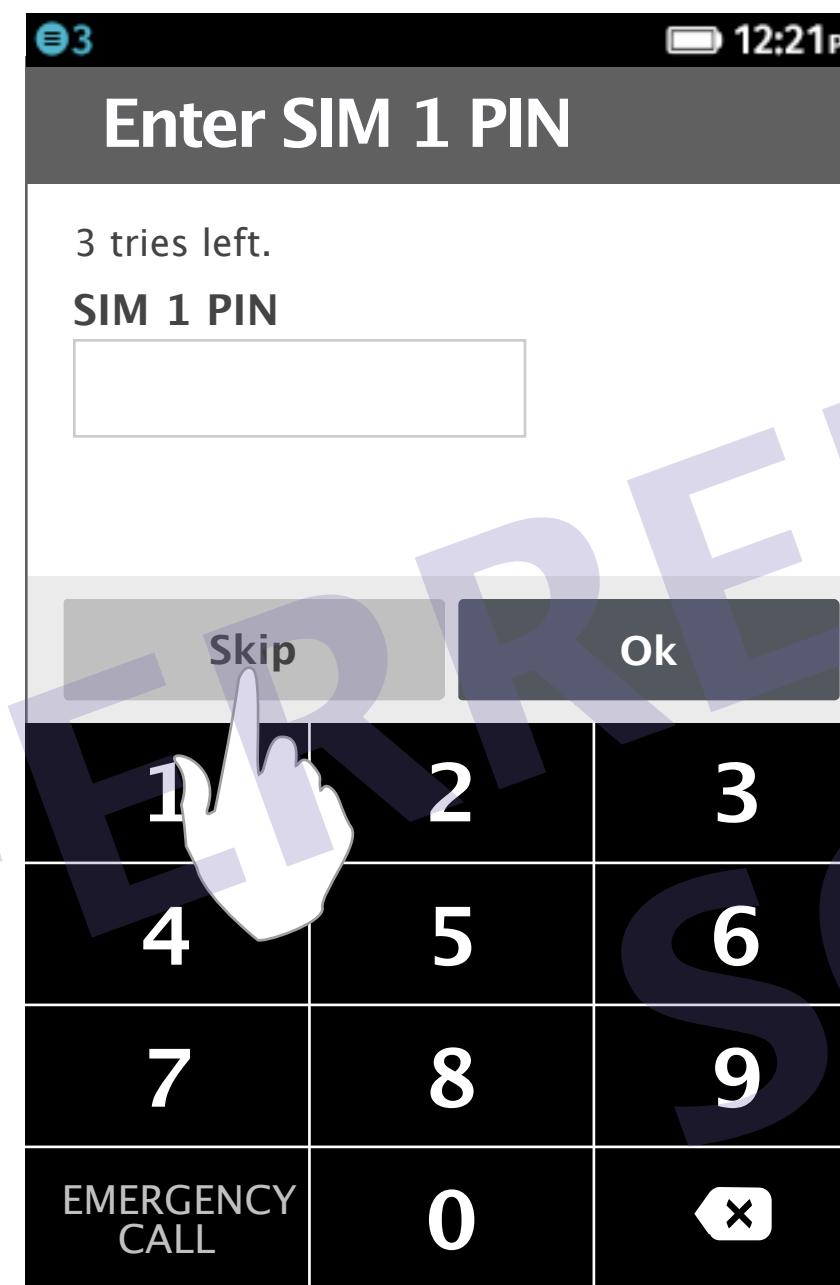
Case 1: Dial from a PIN-locked SIM

updated v0.1

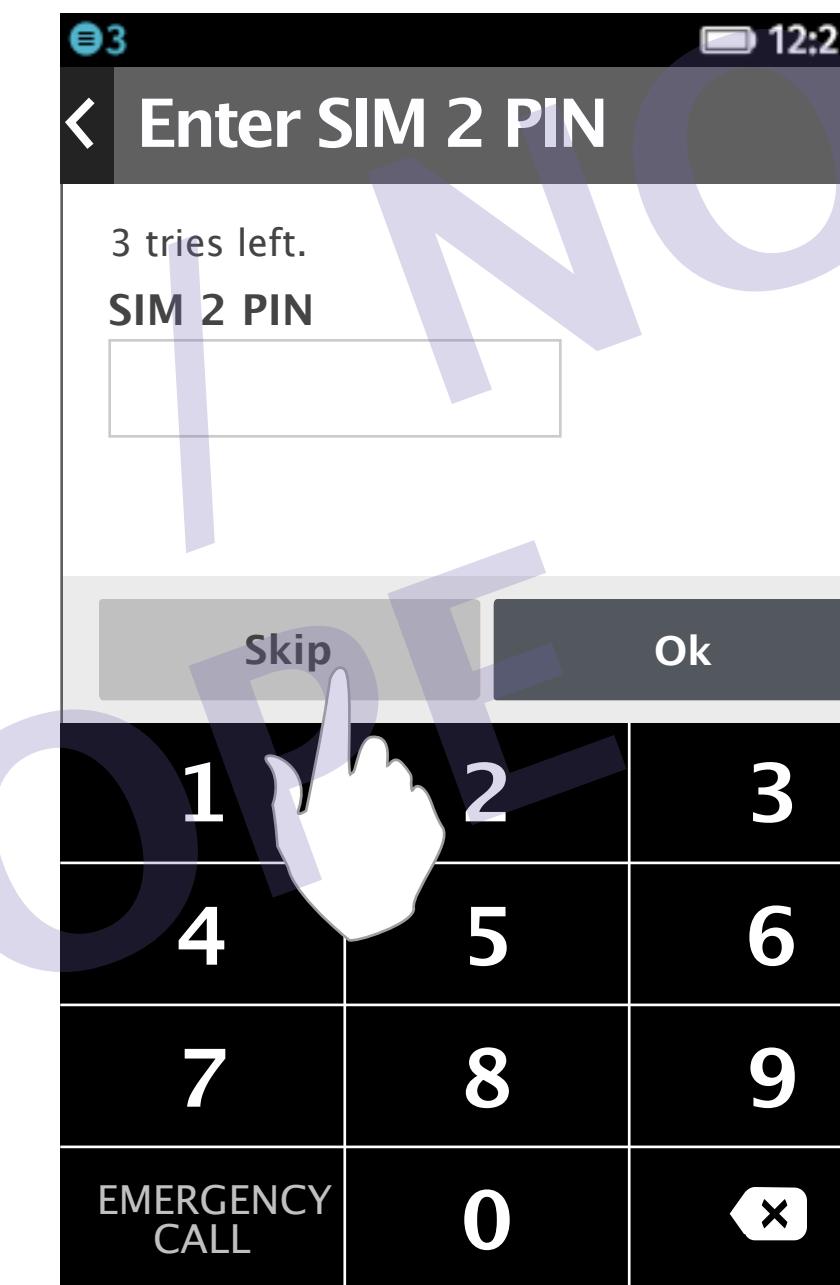
1. [Unlock the device]



2. [Unlock SIM 1]



3. [Unlock SIM 2]



4. [Homescreen]



Both SIM cards have been set with PIN.

Skip the PIN input of SIM 1.

Skip the PIN input of SIM 2.

Tap "<" to get back to screen 2.

"<" only shows up when the user skips SIM 1 PIN entry so that they can get back to input SIM 1 PIN.

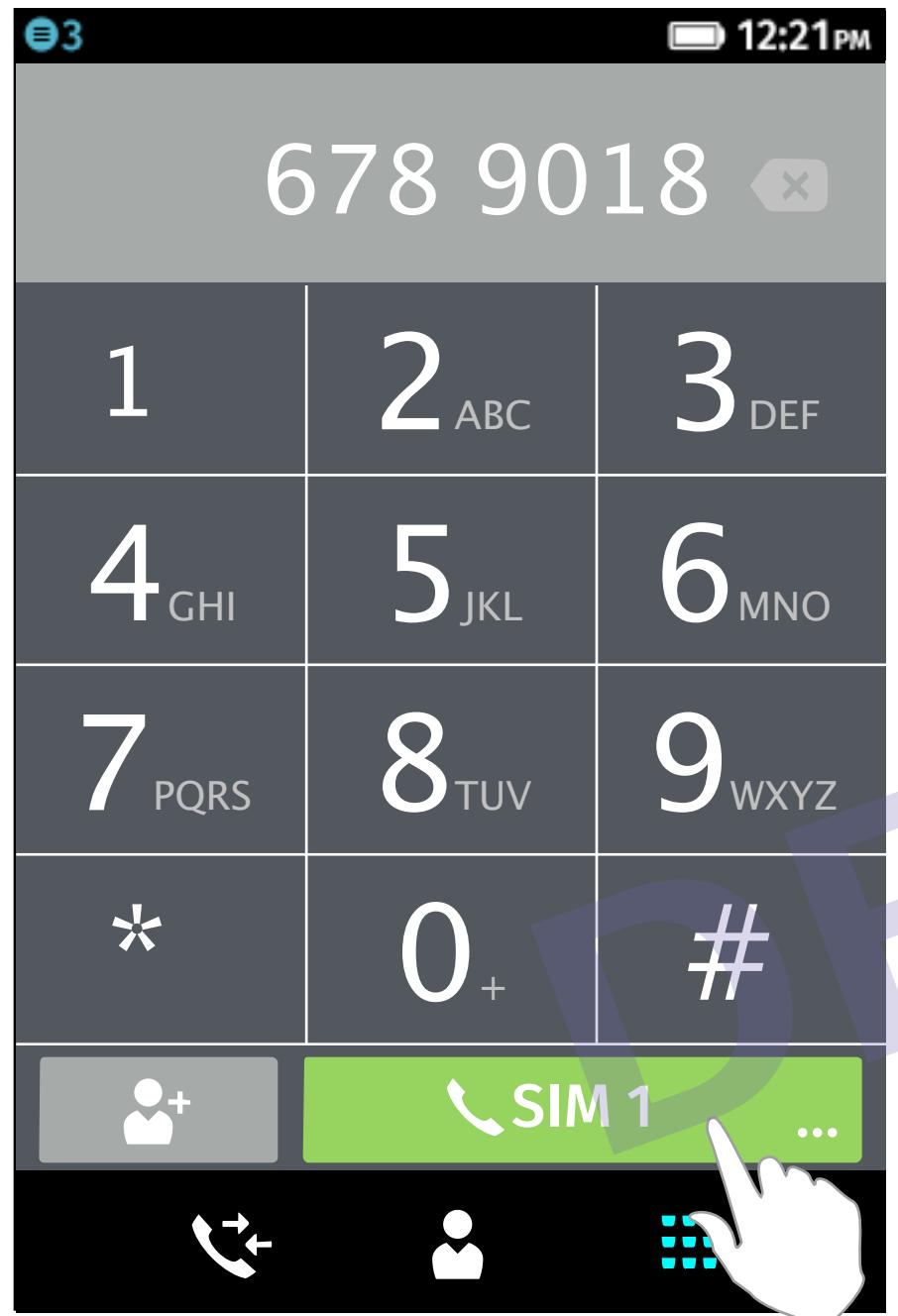
Users can get into Homescreen, but the status bar shows no SIM is working.

The user taps Dialer to make an outgoing call.

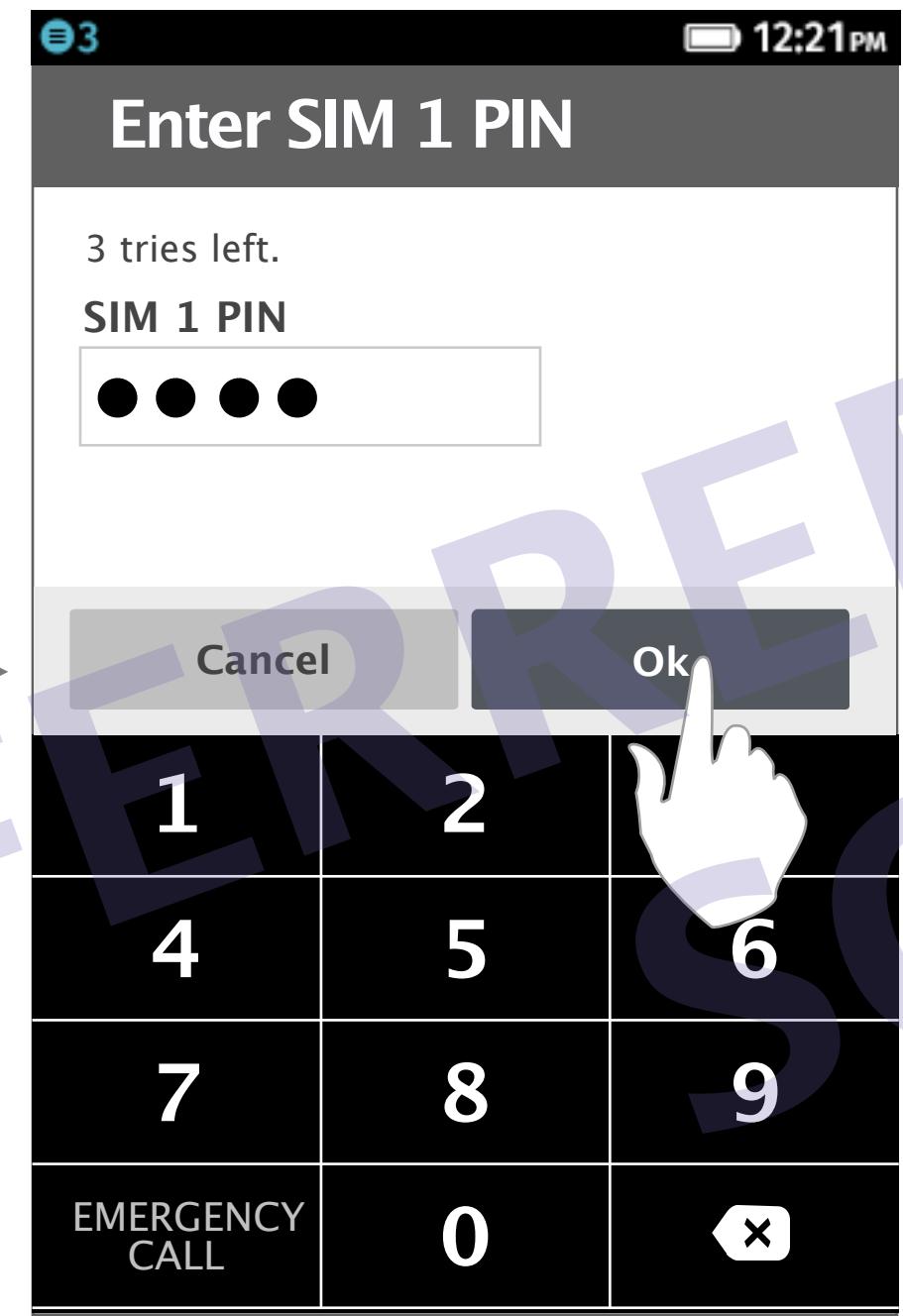
Case 1-1: Call directly from a PIN-locked SIM

updated v0.1

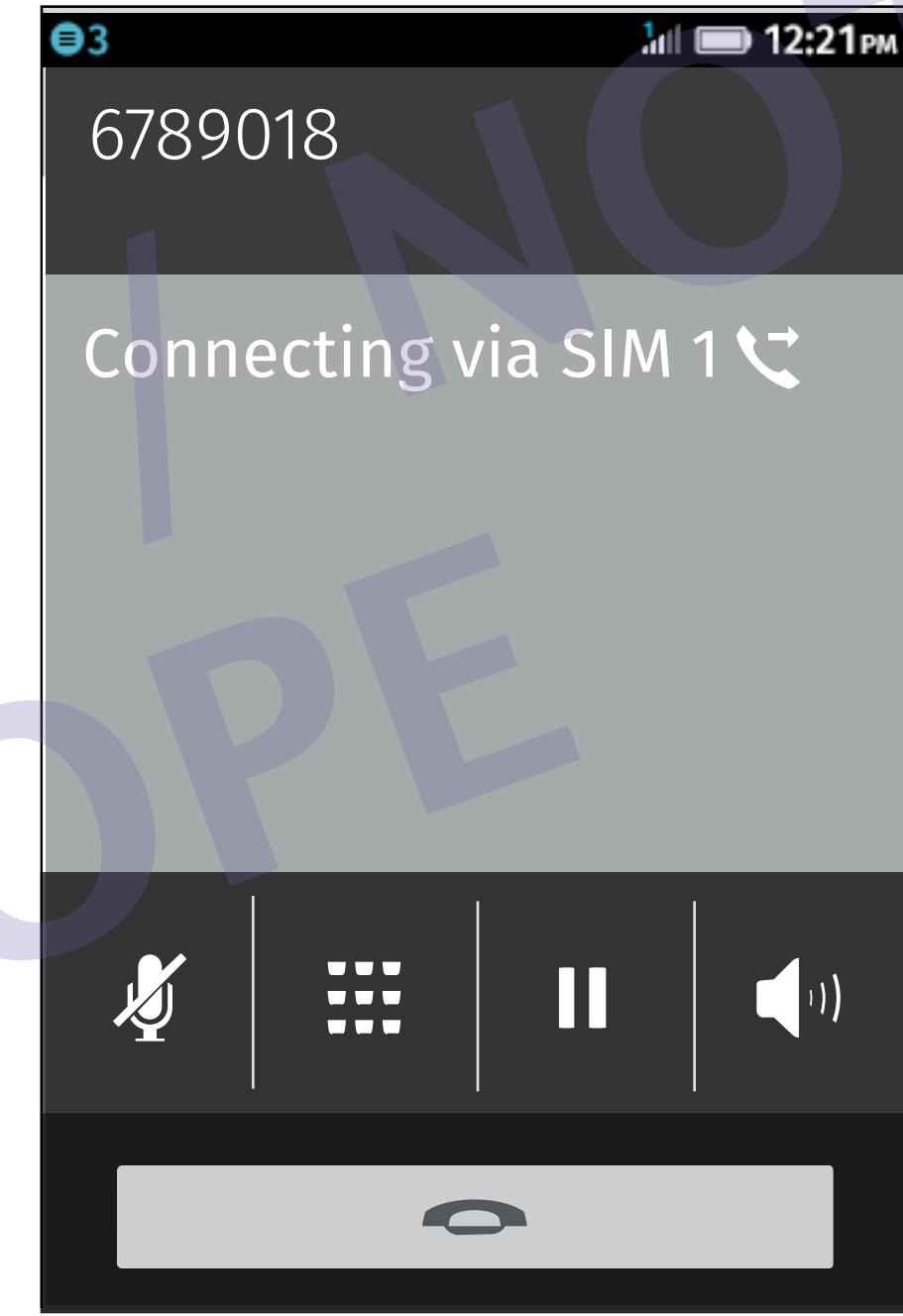
5. [Dialer]



6. [SIM PIN entry page]



7. [Placing the call]



SIM 1 is the primary SIM for outgoing calls, but it's PIN-locked.

The user tap the call button to place the call.

SIM 1 PIN entry page pops up and the user enters the SIM PIN and tap "Ok" to place the call.

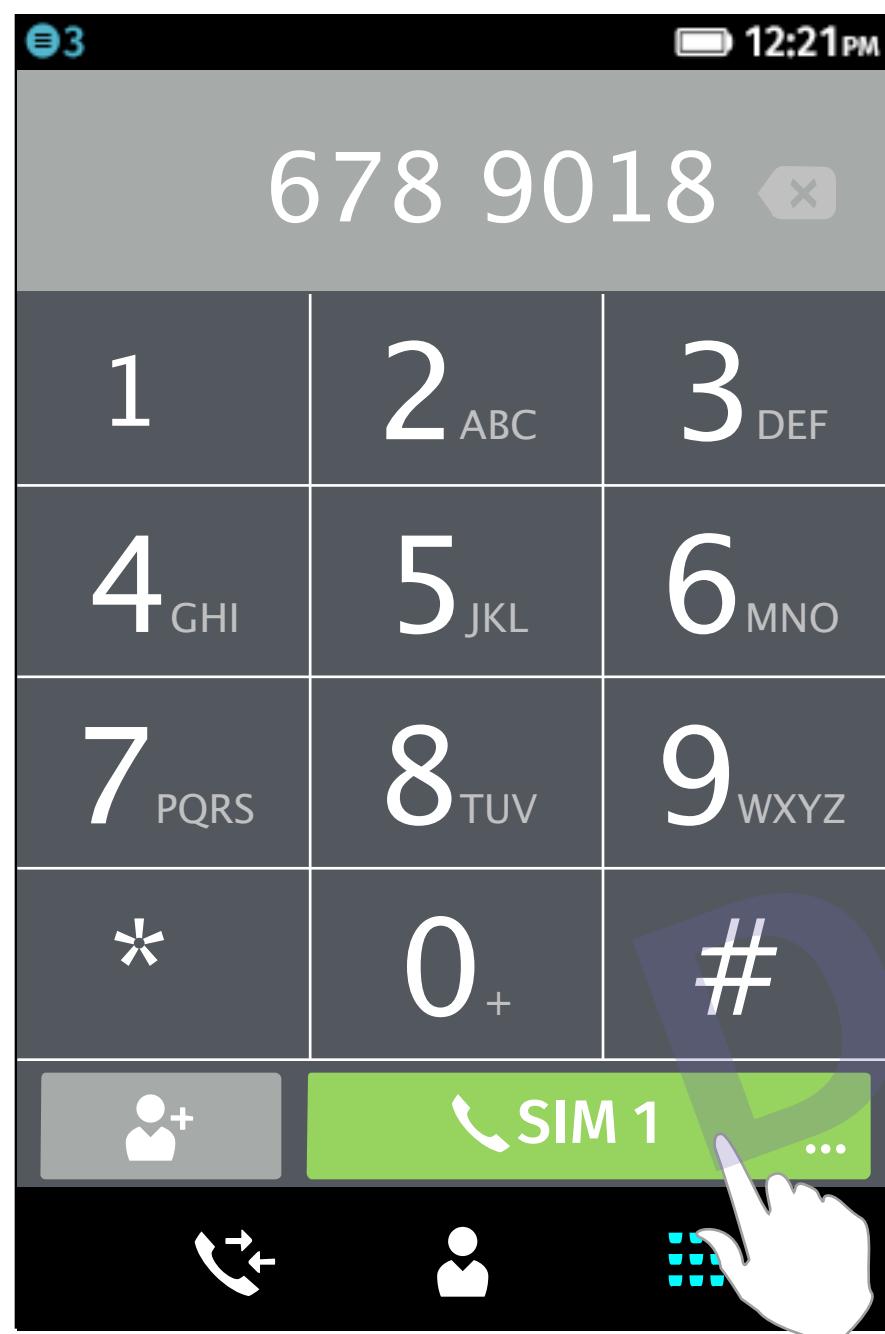
Tap "Cancel" to go back to Screen 1 and SIM 1 is still locked.

The call will then be placed.

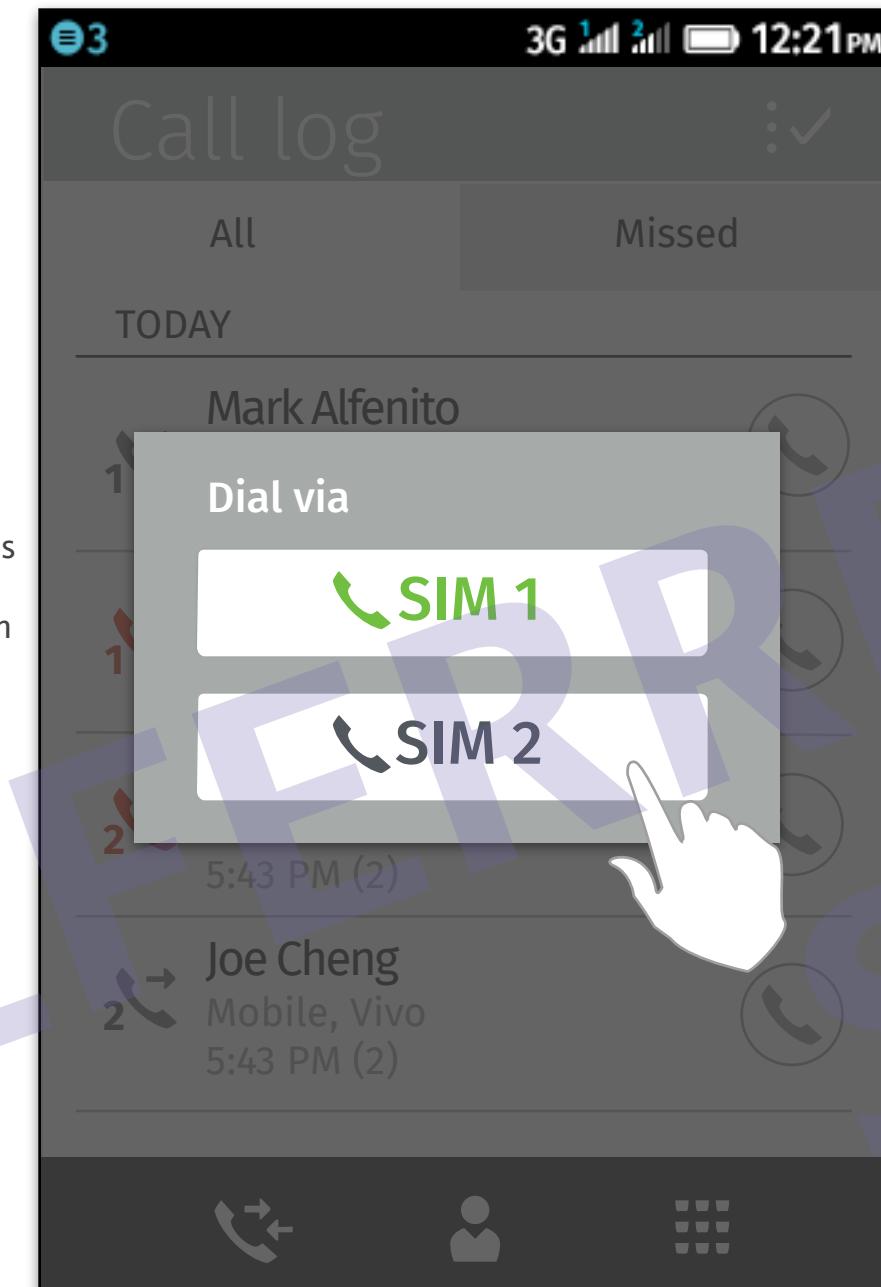
Case 1-2: Select from a PIN-locked SIM

updated v0.1

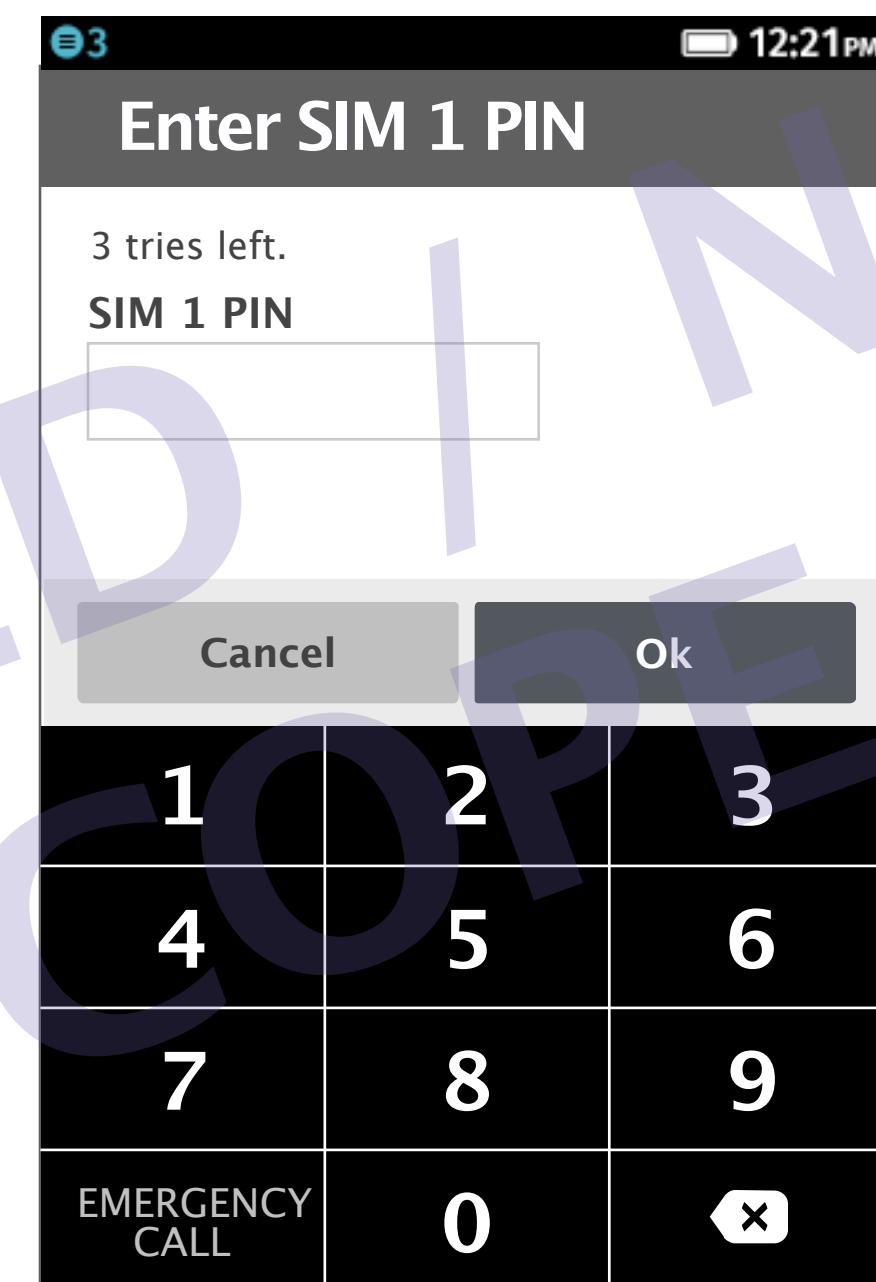
5.[Dialer]



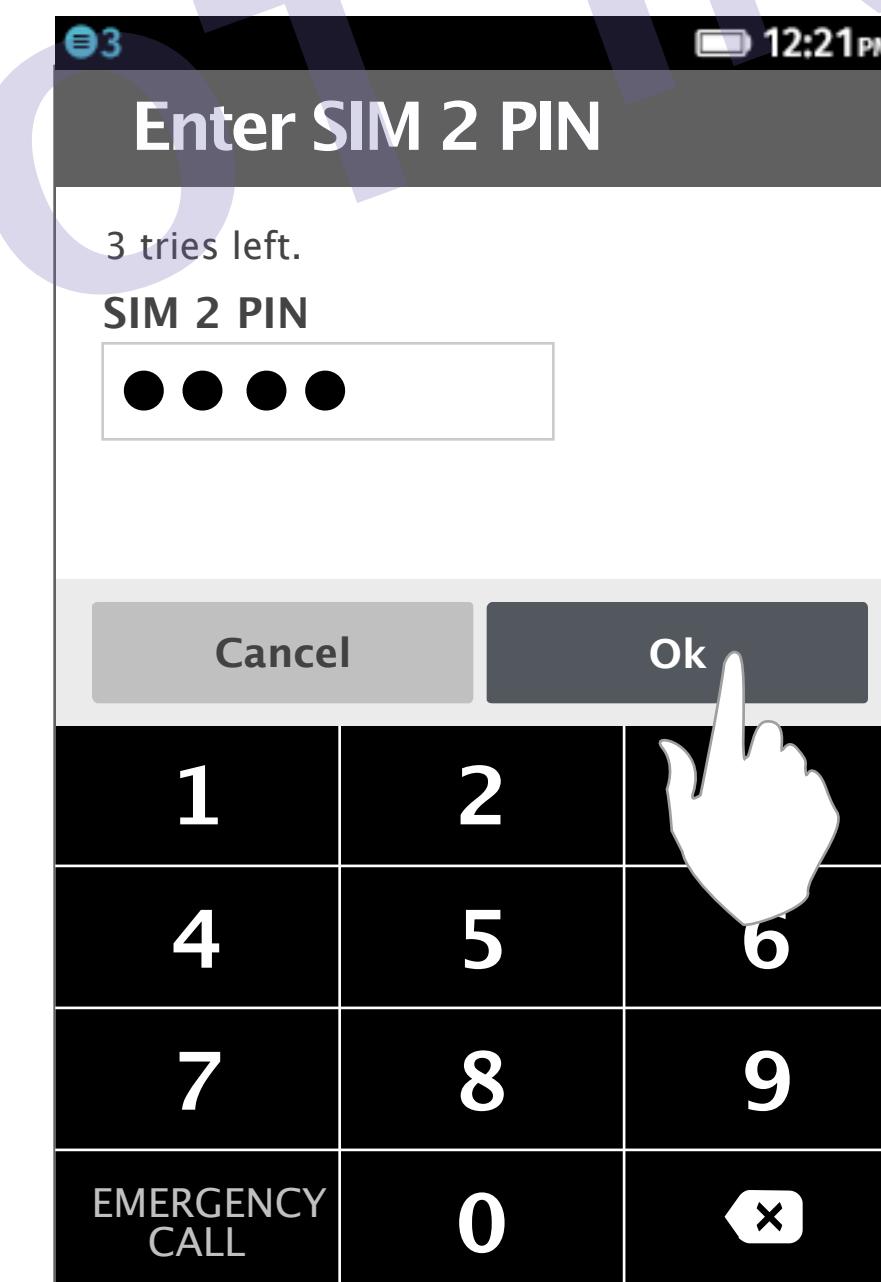
6. [SIM picker]



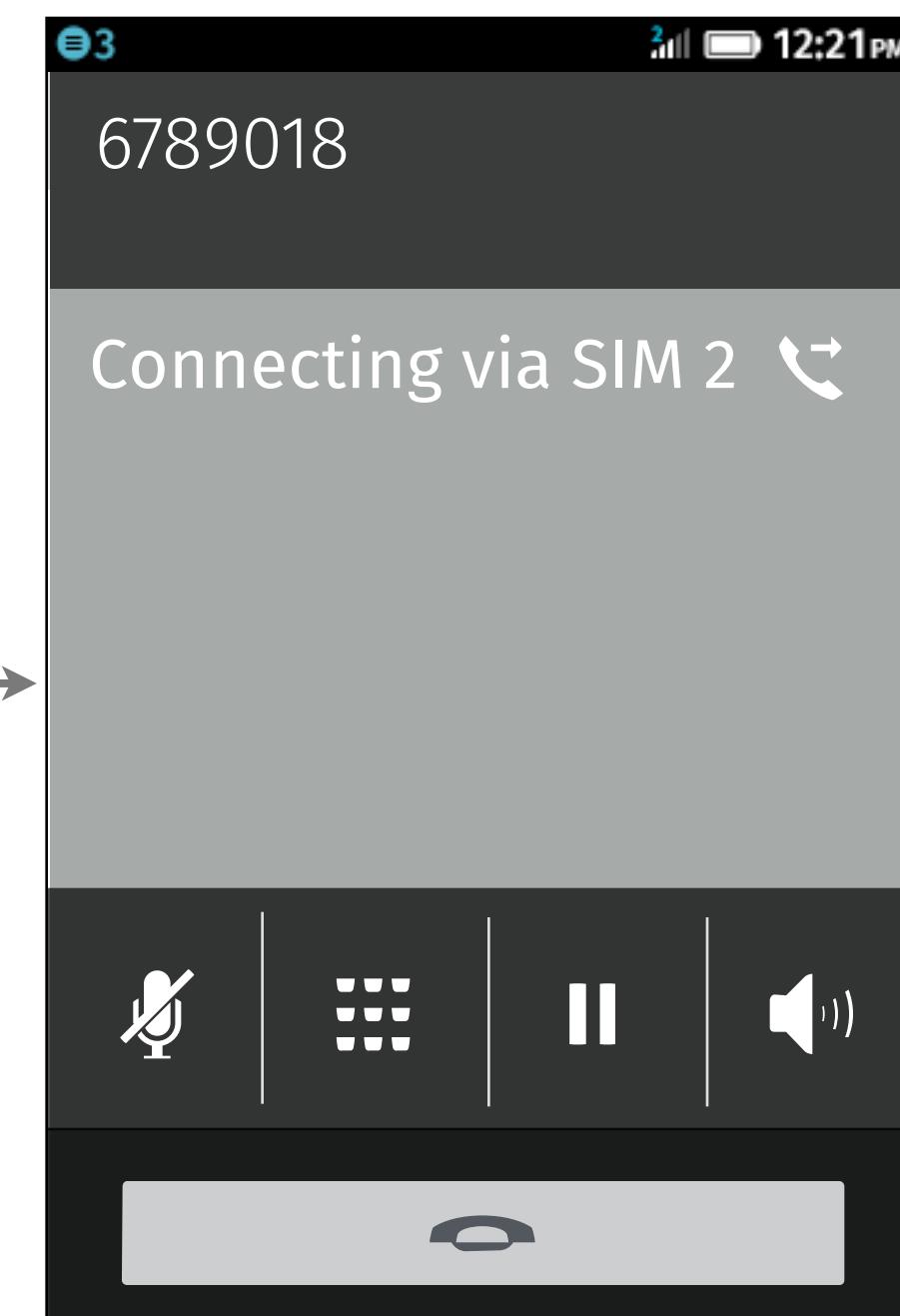
7-1. [Unlock SIM 1]



7-2. [Unlock SIM 2]



8. [Placing the call]



SIM 1 is the primary SIM for outgoing calls, but it's PIN-locked.

The user want to select another SIM to place the call.

The SIM picker pops up.

If the user wants to keep the settings and make call from SIM 1, he can tap SIM 1 call button and go to Screen 7-1.

If the user wants to make call from SIM 2, he can tap SIM 2 call button to Screen 7-2.

Enter SIM 1 PIN and press ok to place the call from SIM 1.

Press Cancel to Screen 6 and SIM 1 is still locked.

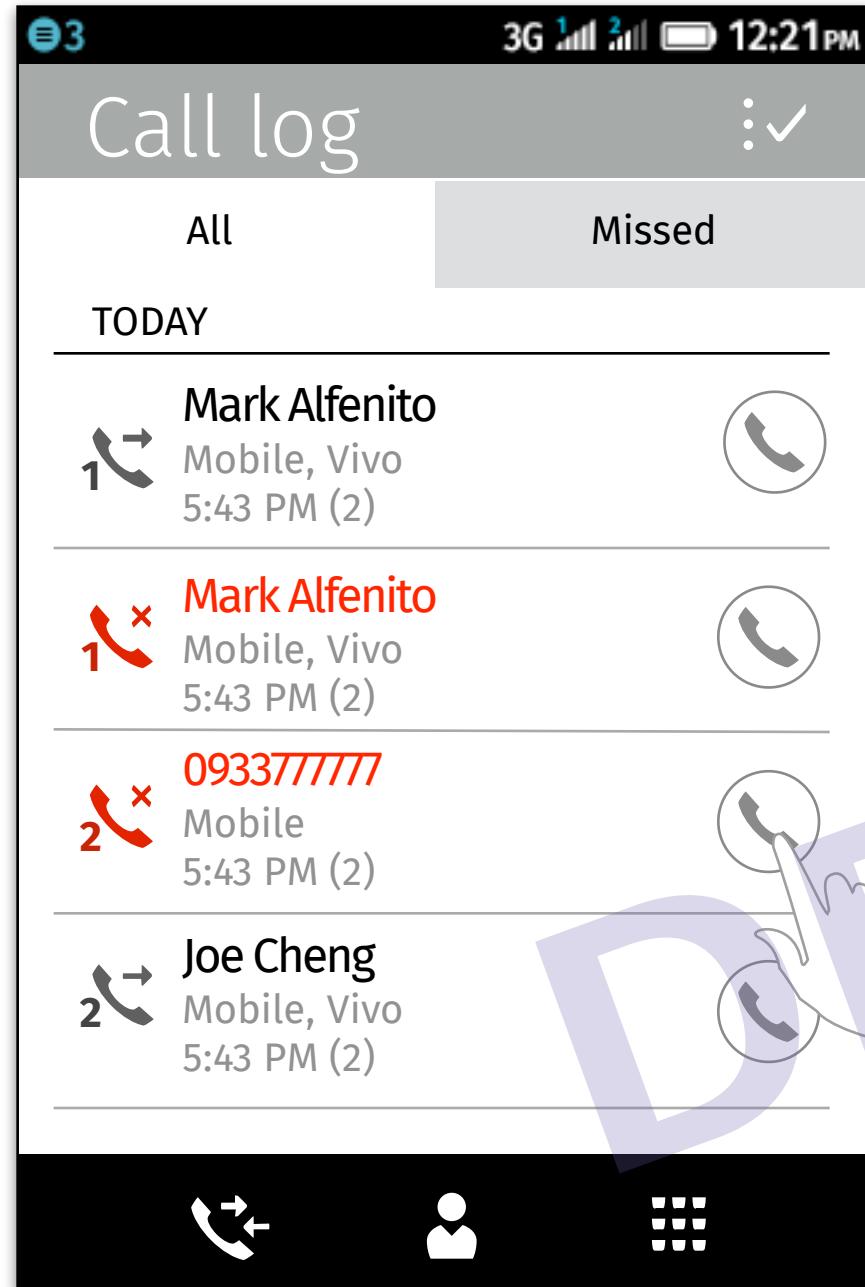
Enter SIM 2 PIN and press ok to place the call from SIM 2.

Press Cancel to Screen 6 and SIM 1 is still locked.

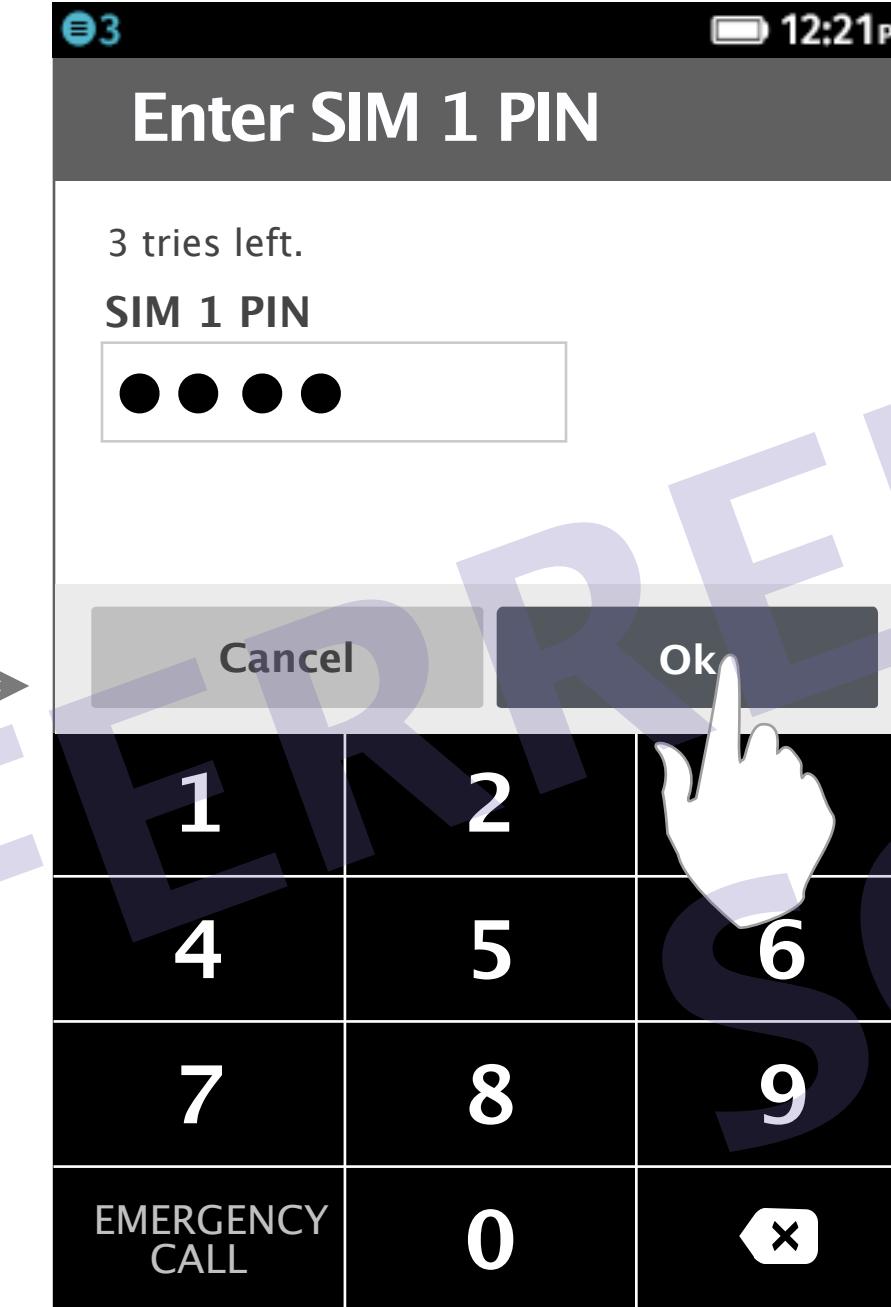
Case 2-1: Call directly from a PIN-locked SIM (from Call log)

updated v0.1

1. [Making calls from primary SIM]

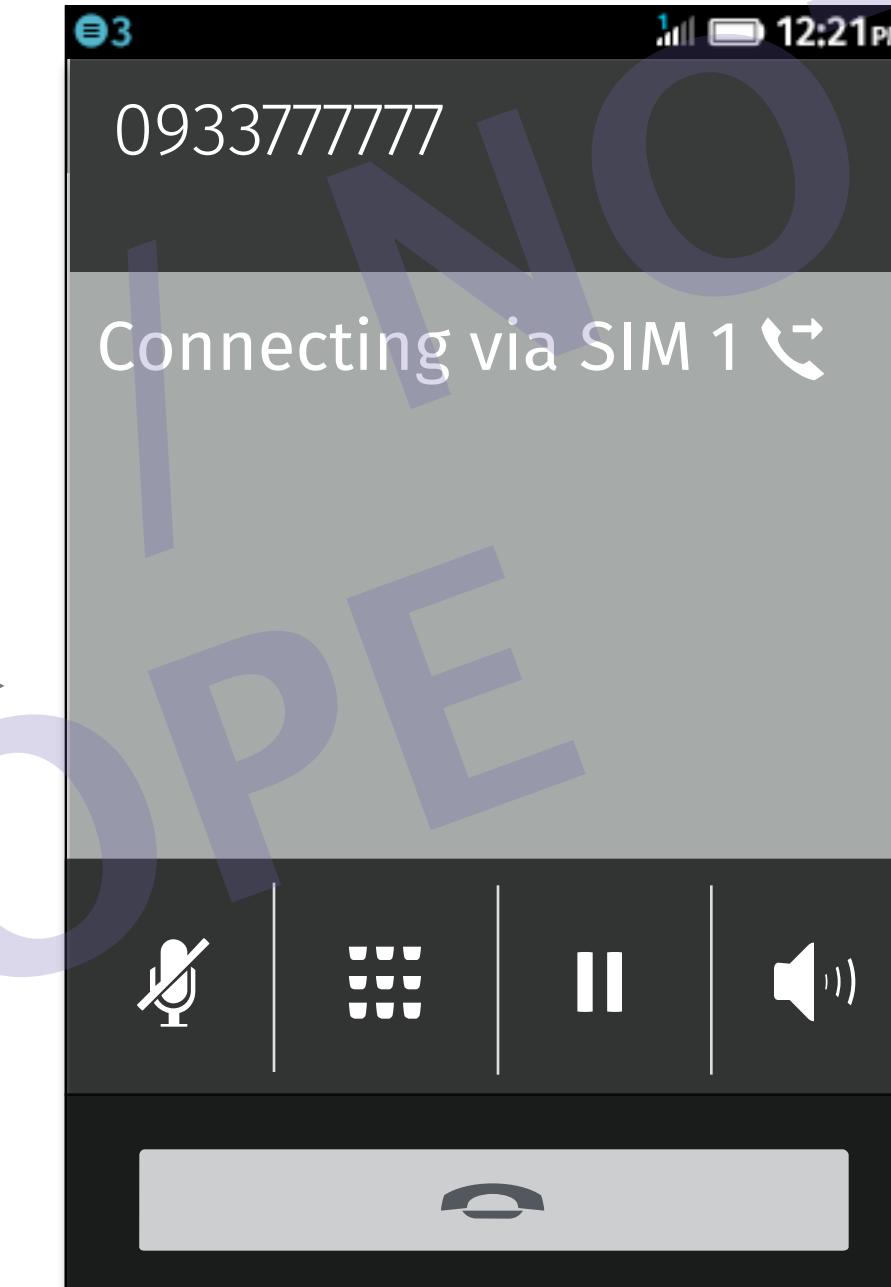


2. [SIM PIN entry page]



Tap the
call button

3. [Call sending page]



Tap OK

The user tap it to call out via the primary SIM, which is SIM 1 in this case.

SIM 1 PIN entry page pops up and the user enters the SIM PIN and tap "Ok" to place the call.

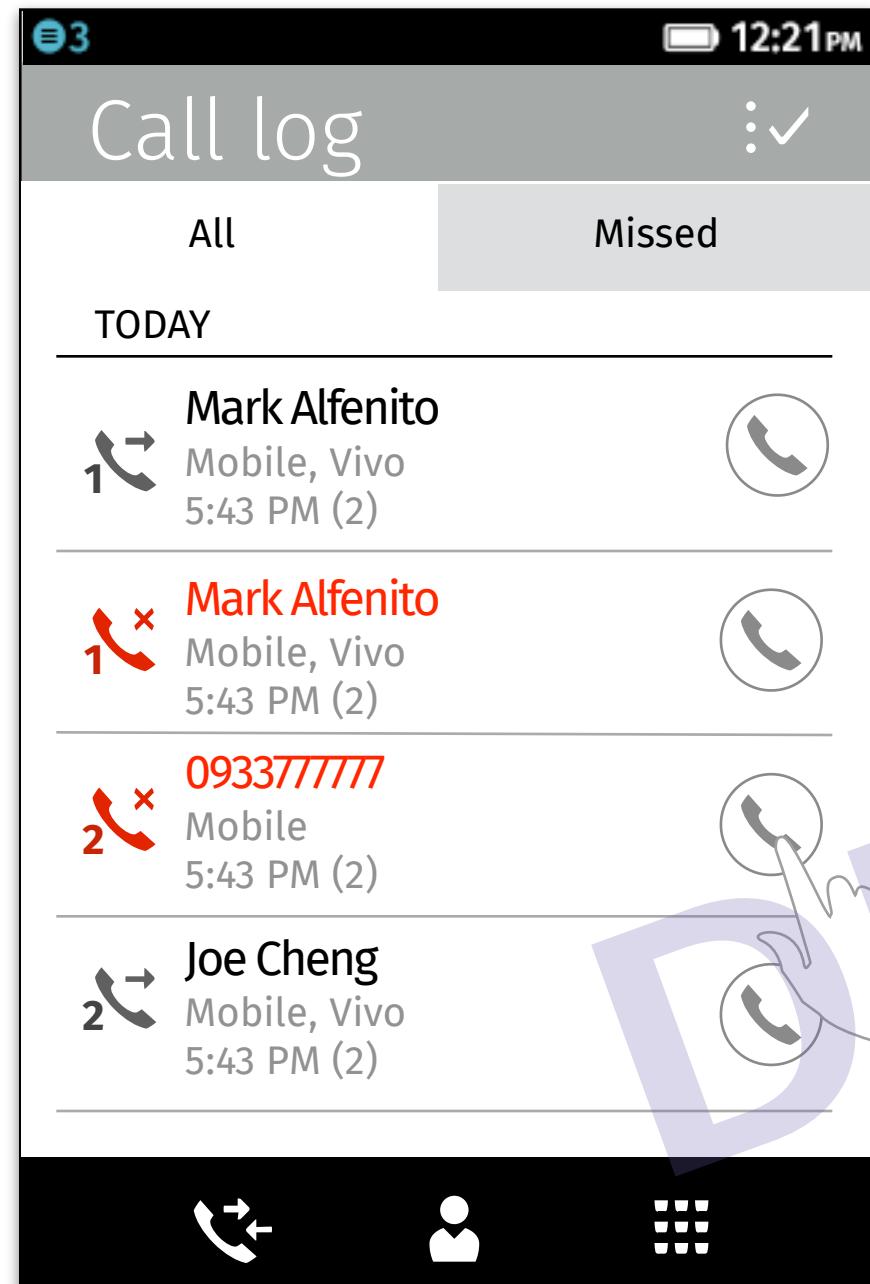
Tap "Cancel" to go back to Screen 1 and SIM 1 is still locked.

The call is made from SIM 1 and the subtitle shows "SIM 1" to indicate the user.

Case 2-2: Select a locked SIM to call directly (from Call log)

updated v0.1

1. [Making calls from primary SIM]



2. [SIM picker]

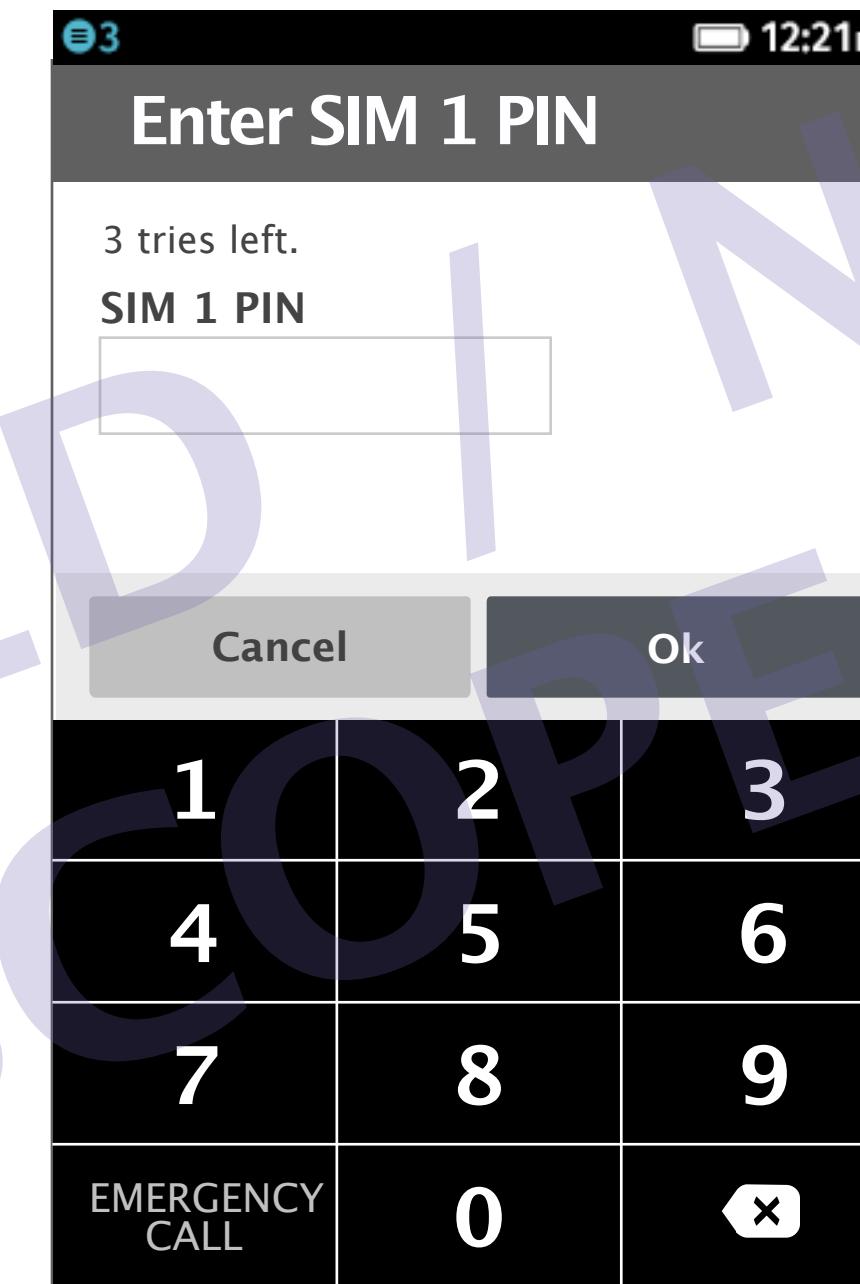


The SIM 1 is the primary SIM for outgoing calls, but it's PIN-locked.

If the user wants to keep the settings and dial from SIM 1, he can tap SIM 1 and go to Screen 3-1.

If the user wants to make call from SIM 2, he can tap SIM 2 to Screen 3-2.

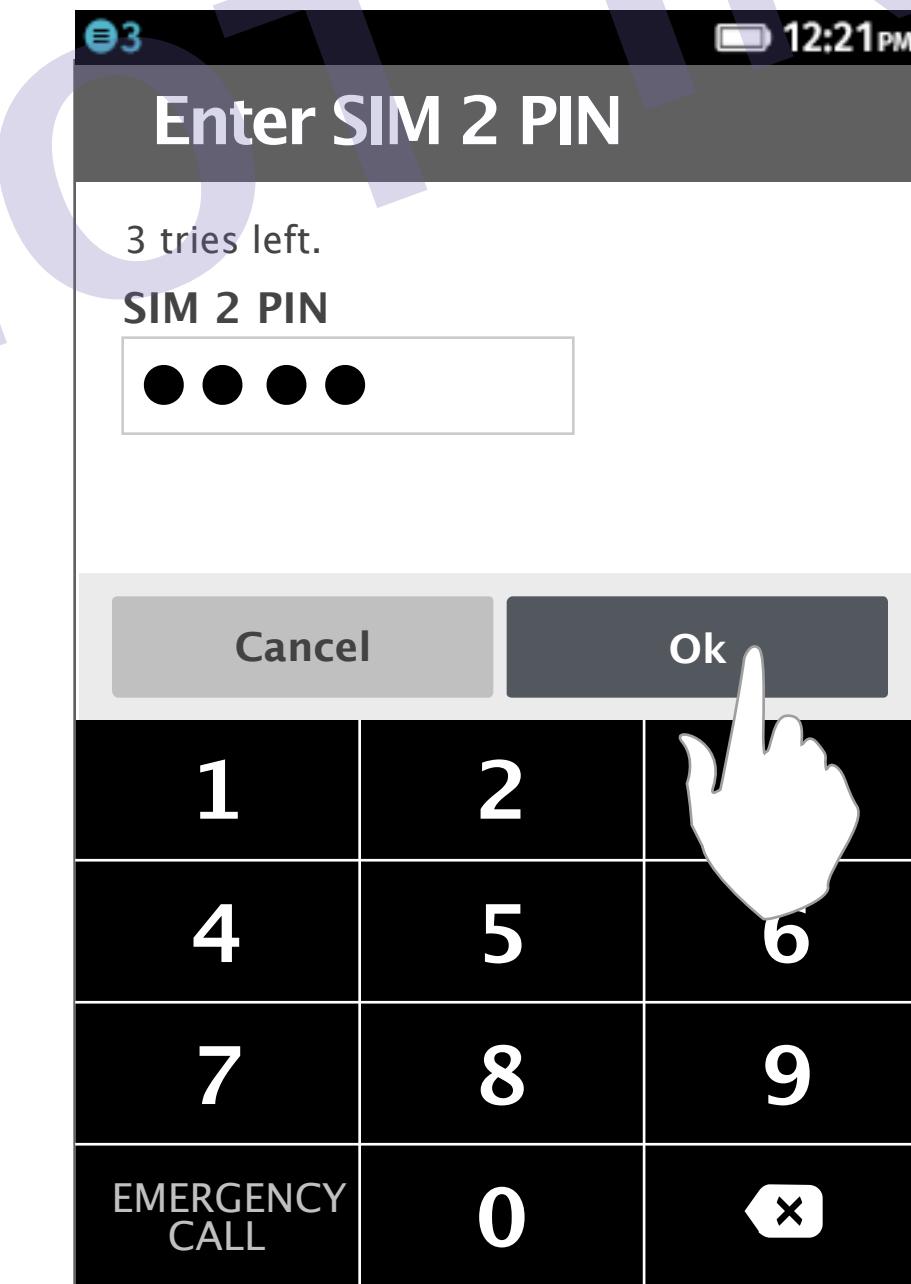
3-1. [Unlock SIM 1]



Enter SIM 1 PIN and press ok to place the call from SIM 1.

Press Cancel to Screen 6 and SIM 1 is still locked.

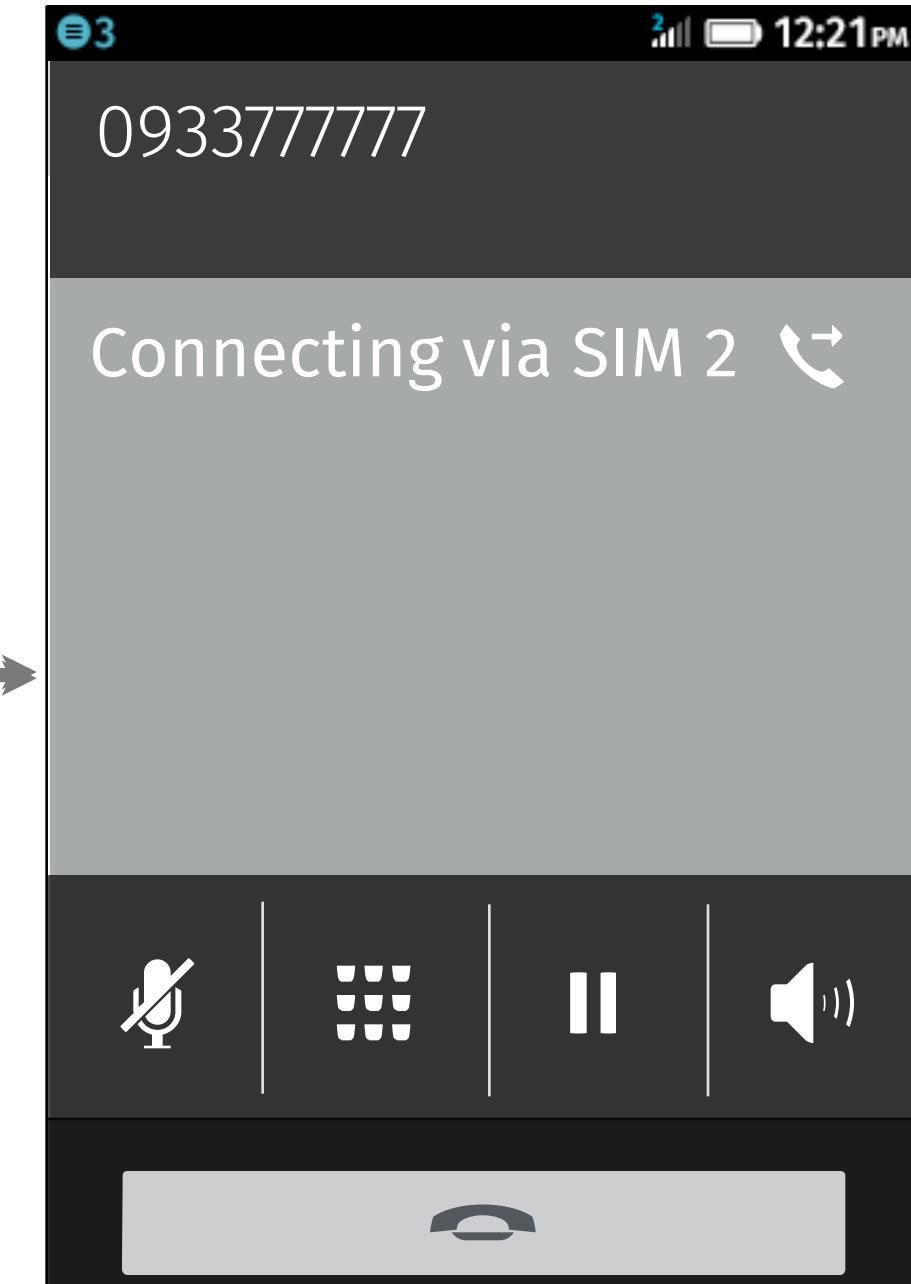
3-2. [Unlock SIM 2]



Enter SIM 2 PIN and press ok to place the call from SIM 2.

Press Cancel to Screen 6 and SIM 1 is still locked.

4. [Placing the call]



The user wants to select another SIM to place the call.

Case 3: Import/ Export contacts from the locked SIM

updated v0.1

1. [Homescreen]



If one or two SIM are locked,
users tap Contacts to see
details.

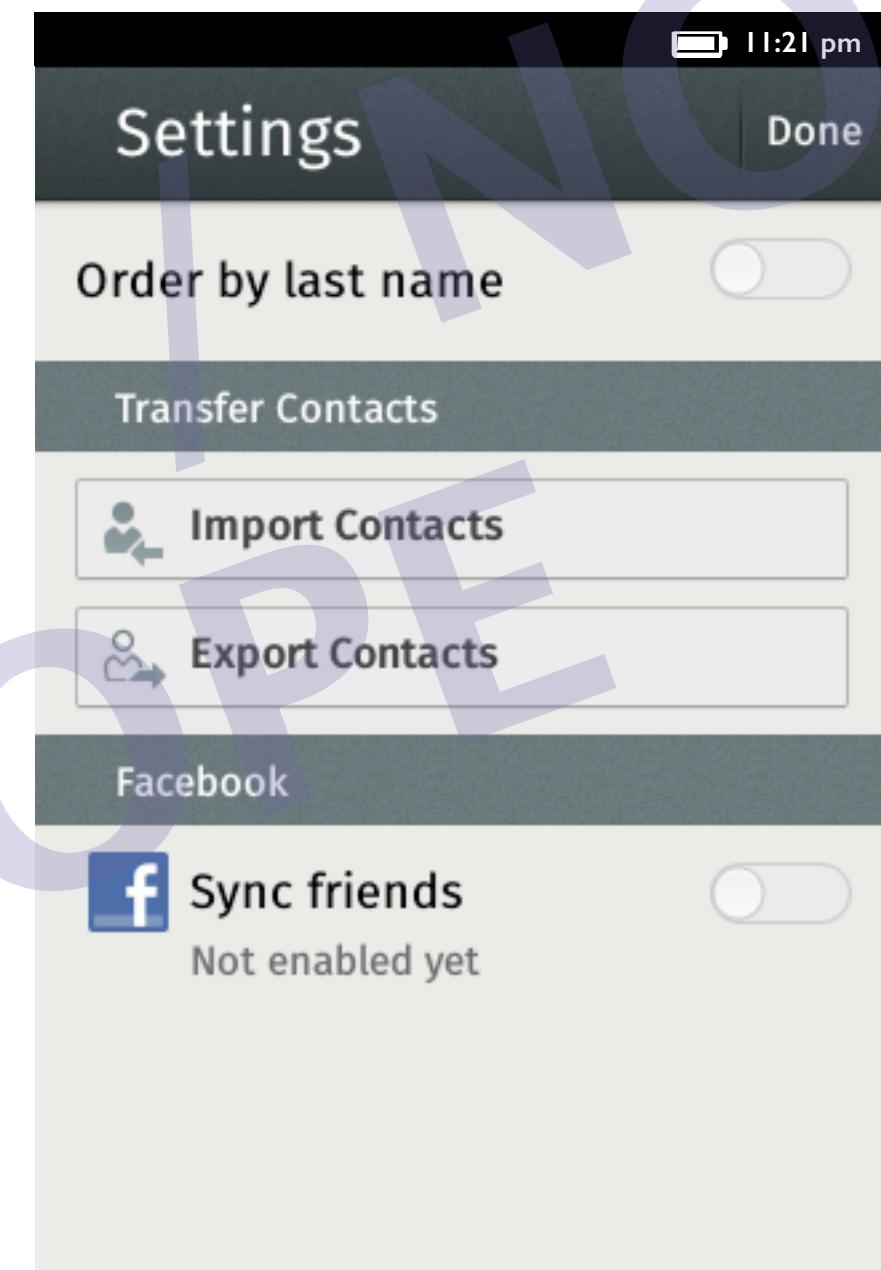
2. [Tap Contacts settings]



The user can still see contacts
information here.

He then tap the settings to do
import/ export.

3. [Import/ Export]



The user can do the related
settings here.

Tap Import Contacts to
Case 3-1.

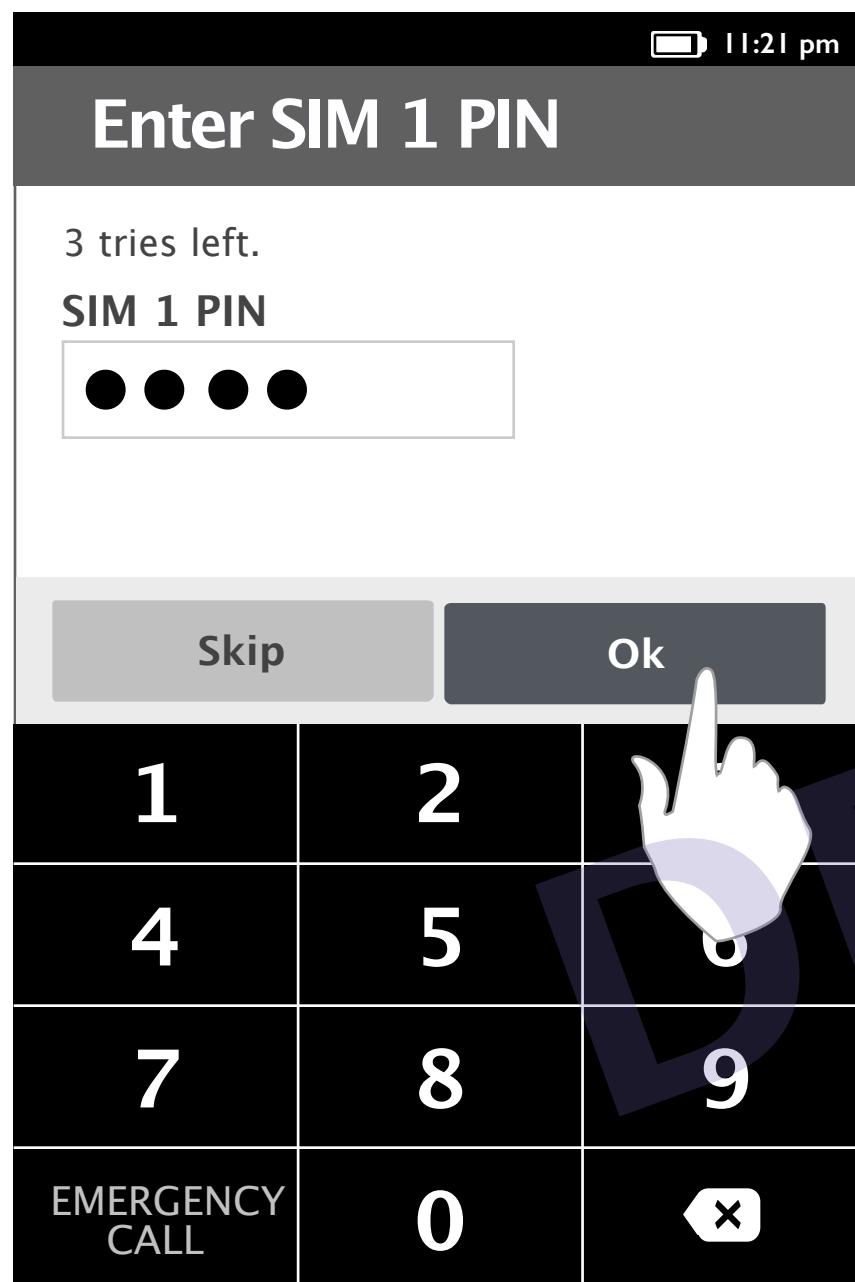
Tap Export Contacts to
Case3-2.

Tap Import to P.27
Tap Export to P.28

Case 3-1: Import contacts from the locked SIM

updated v0.1

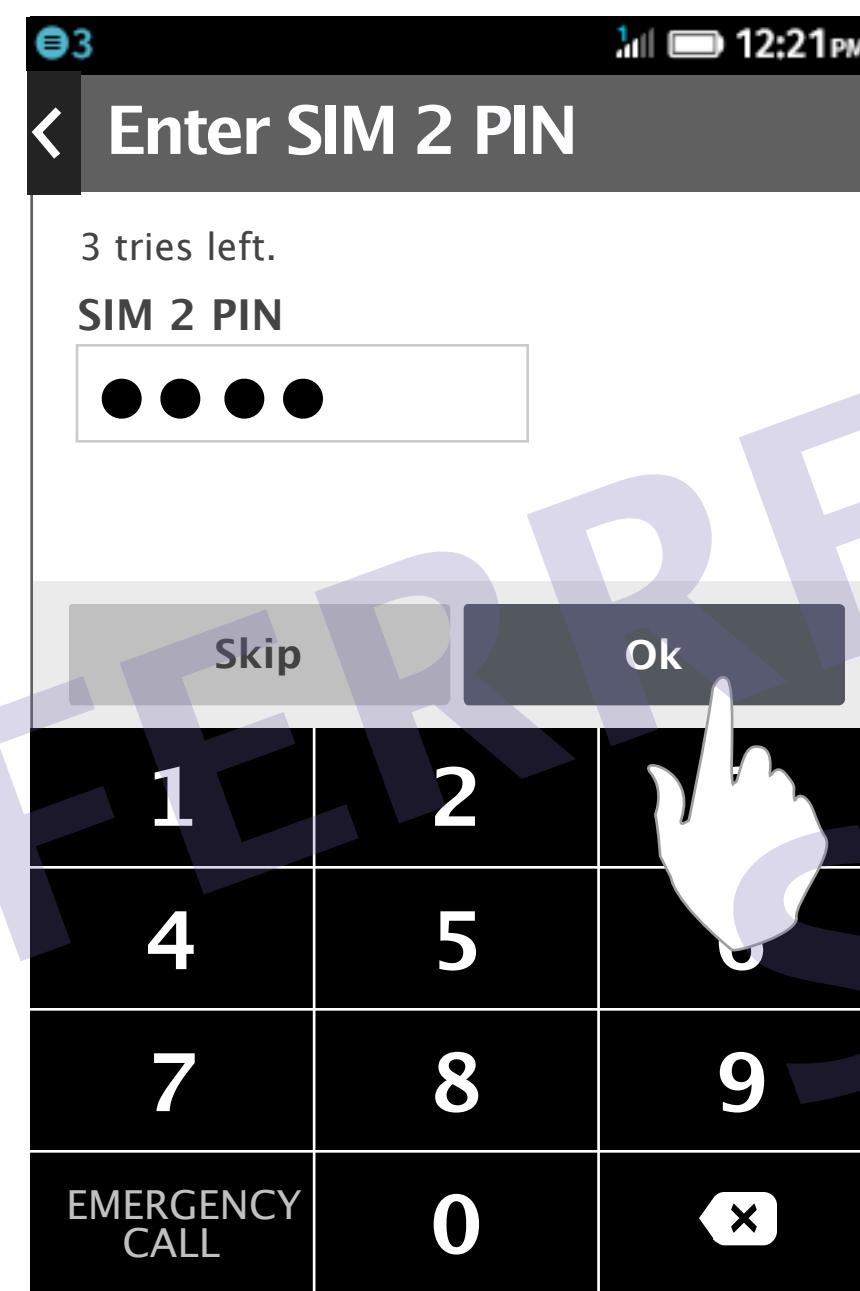
4. [Unlock SIM 1]



The user enters the SIM 1 PIN and tap "OK" to Screen 5.

The user taps "Skip" to Screen 5.

5. [Unlock SIM 2]



The user can enter the PIN and tap "OK" or "Skip" the PIN to proceed.
"<" will show up if the user skip SIM 1 PIN entry.

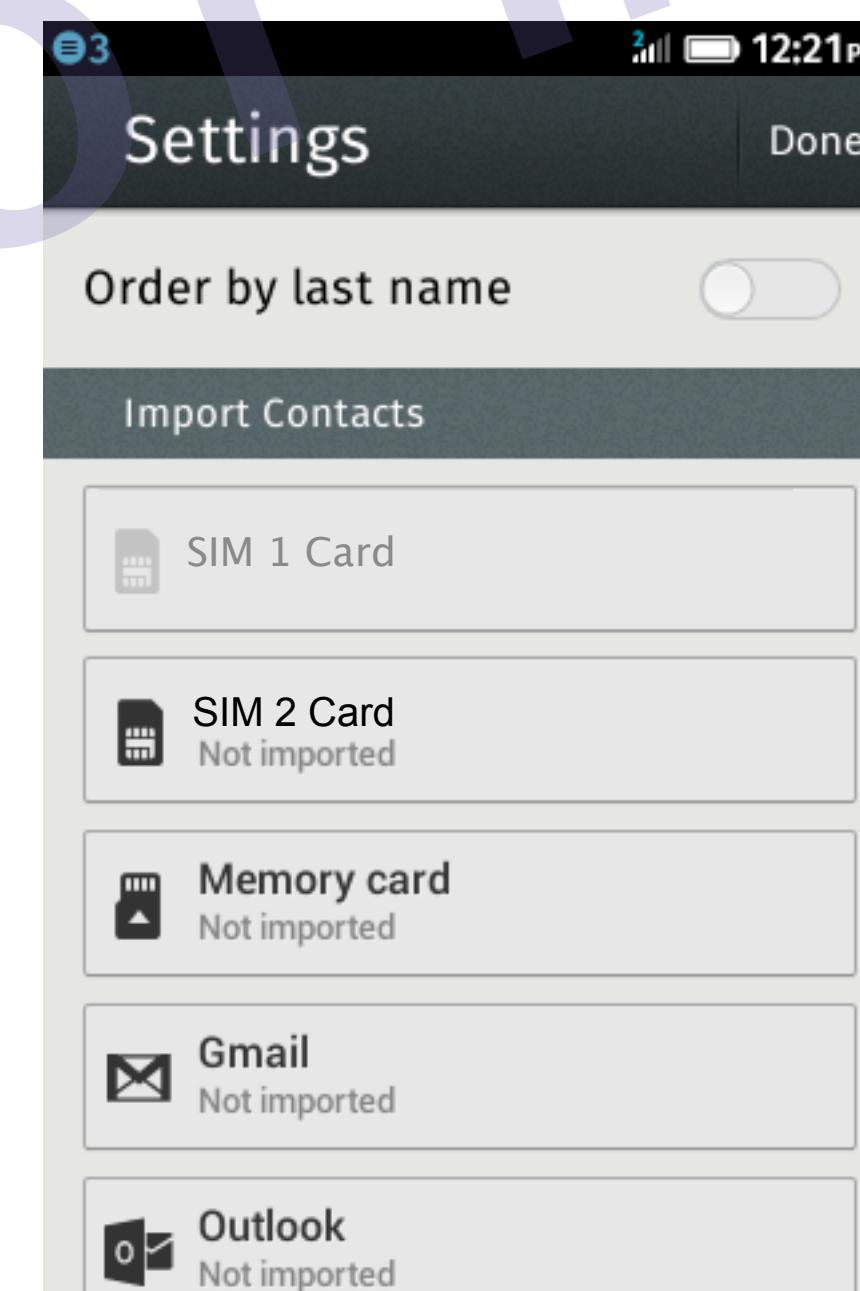
If both SIM are unlocked, go Screen 6-1.
If only one SIM is unlocked, go Screen 6-2.
If both SIM are still locked, go Screen 6-3.

6-1. [Both SIM are unlocked]



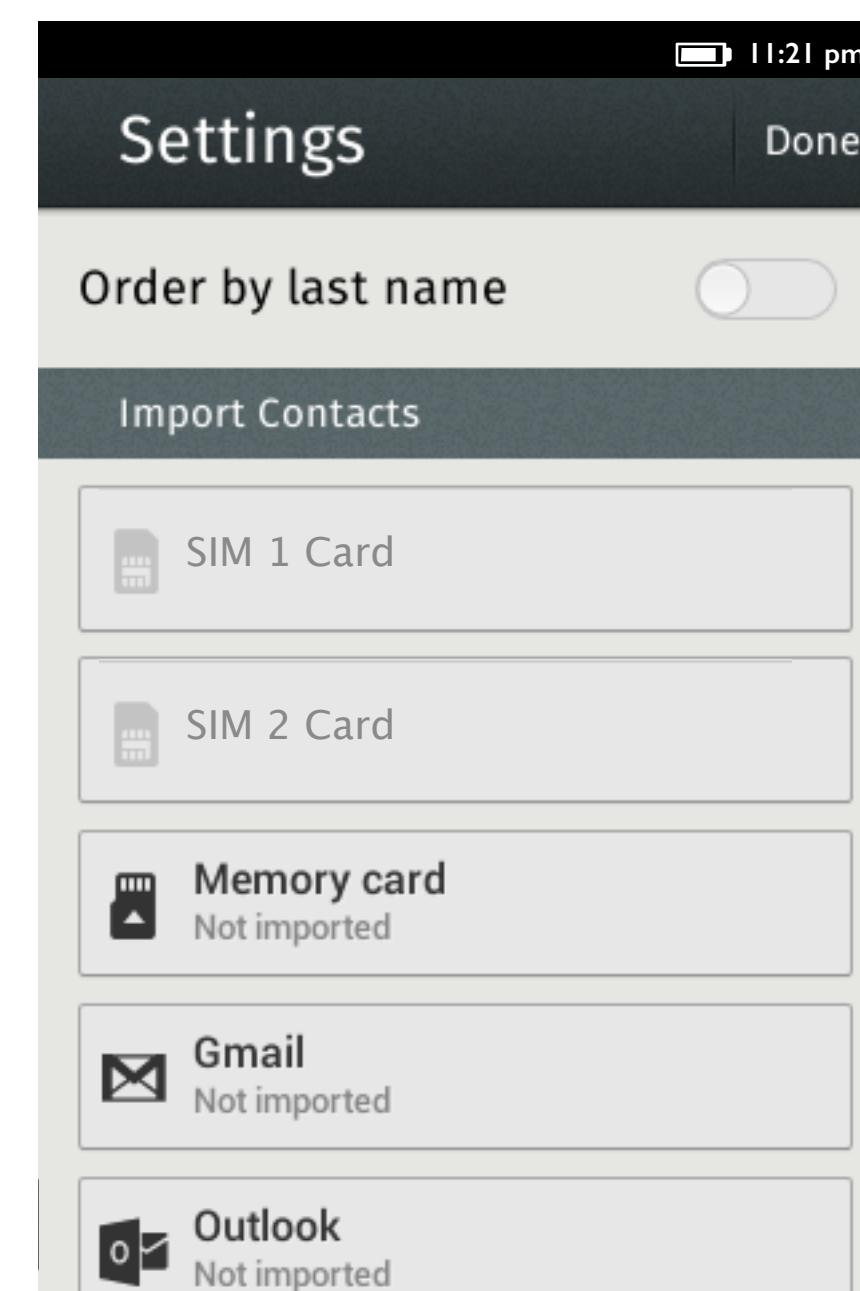
Both SIM are unlocked and the user can tap one of them to import contacts.

6-2. [SIM 2 is unlocked]



Only SIM 2 is unlocked. Hence, SIM 1 is grayed out and the user can only tap SIM 2 to import contacts.

6-3. [Both SIM are locked]

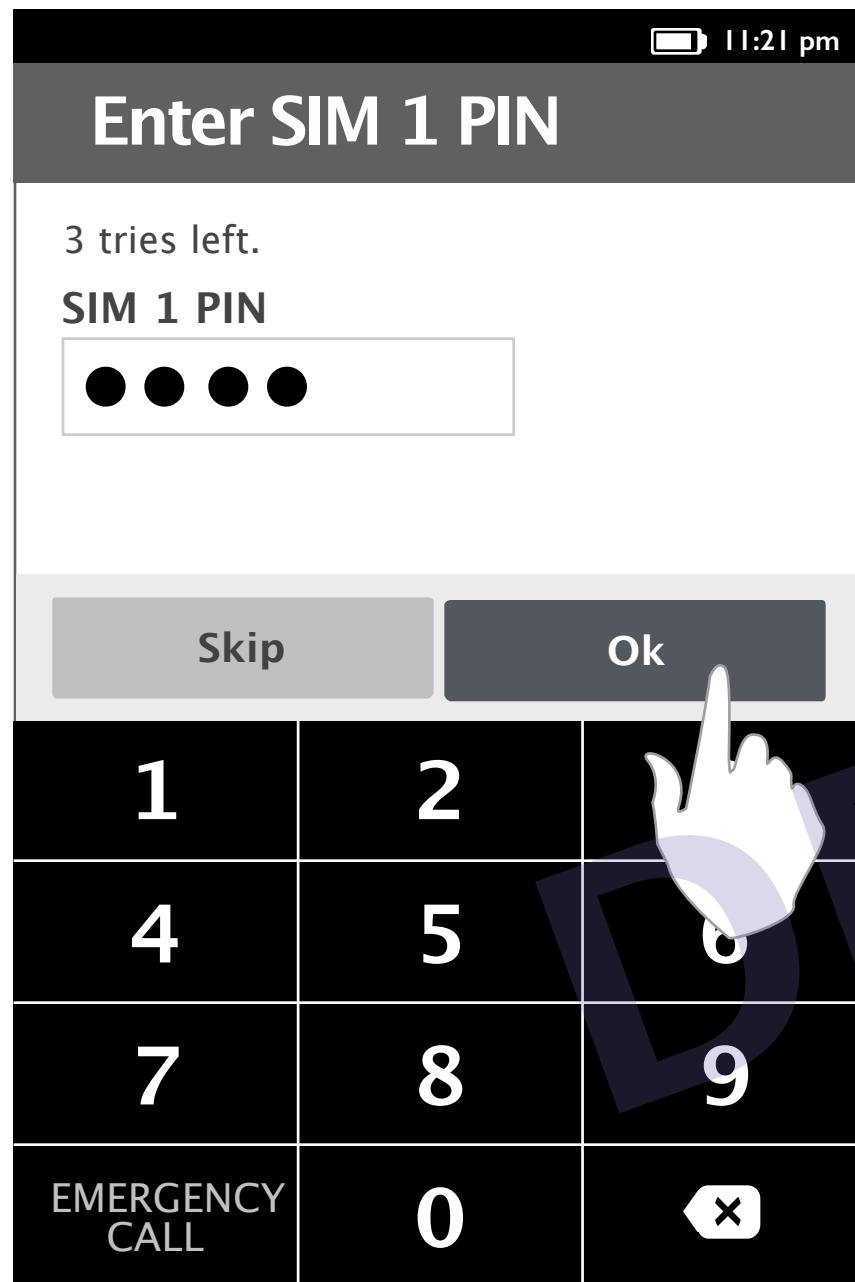


Both SIM are locked and grayed out. Both of them can not be imported.

Case 3-2: Export contacts from the locked SIM

updated v0.1

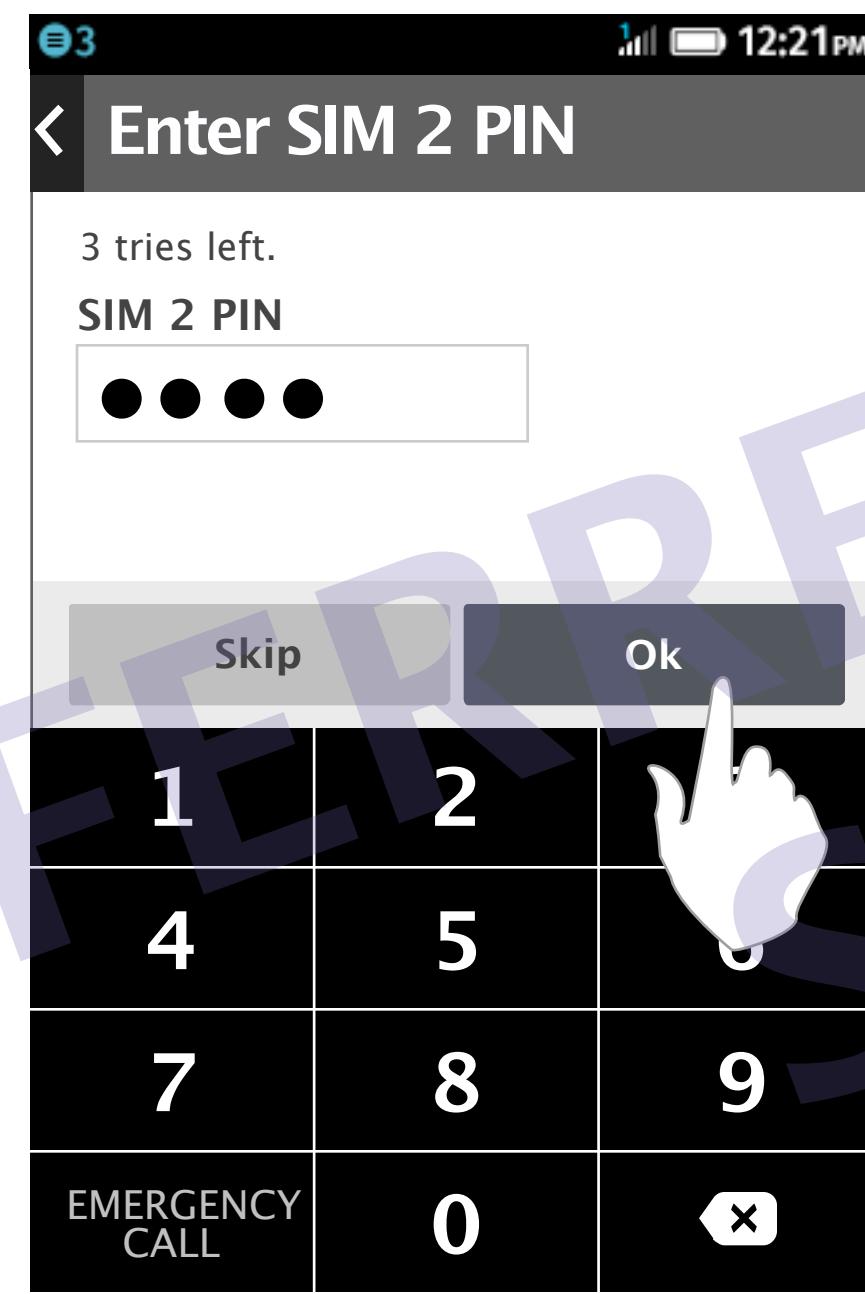
4. [Unlock SIM 1]



The user enters the SIM 1 PIN and tap "OK" to Screen 5.

The user taps "Skip" to Screen 5.

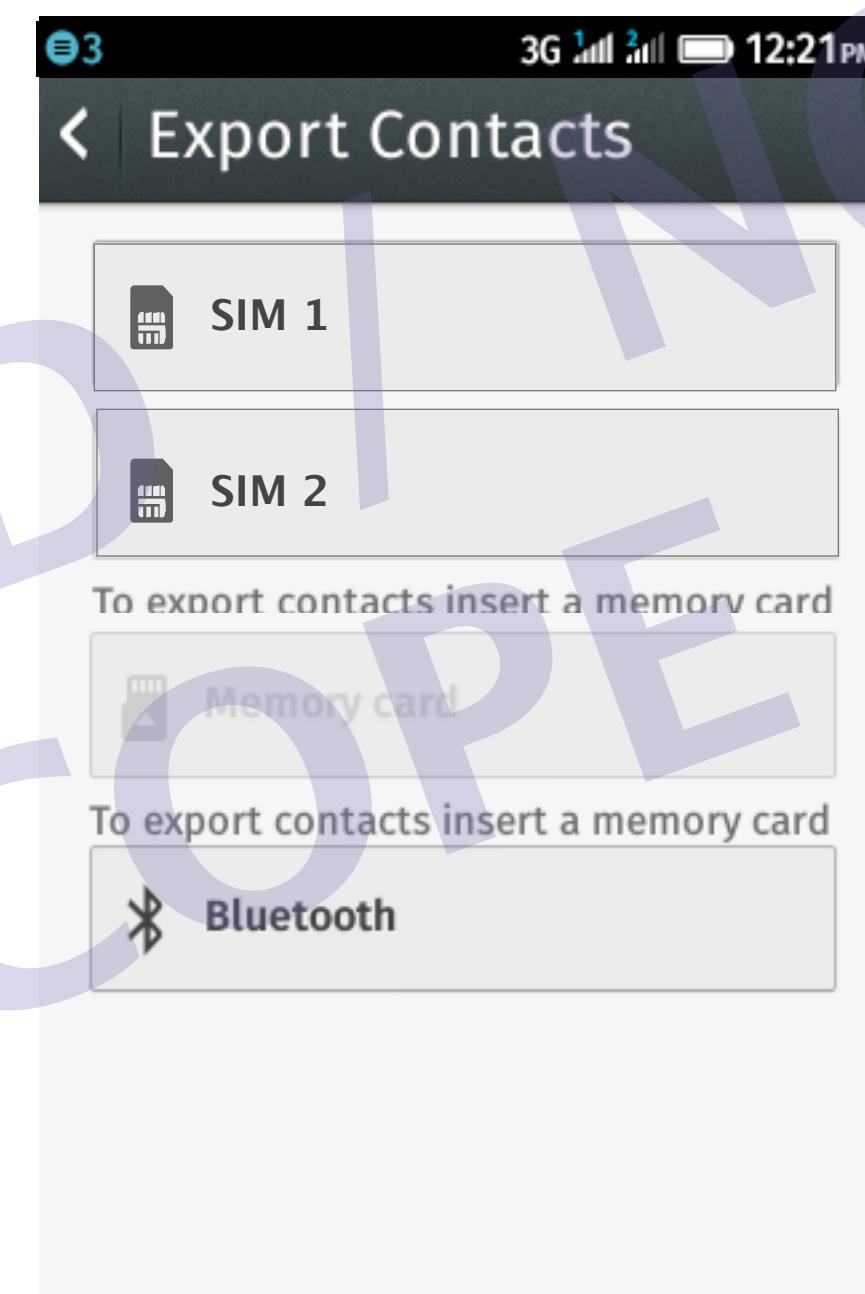
5. [Unlock SIM 2]



The user can enter the PIN and tap "OK" or "Skip" the PIN to proceed.
"<" will show up if the user skip SIM 1 PIN entry.

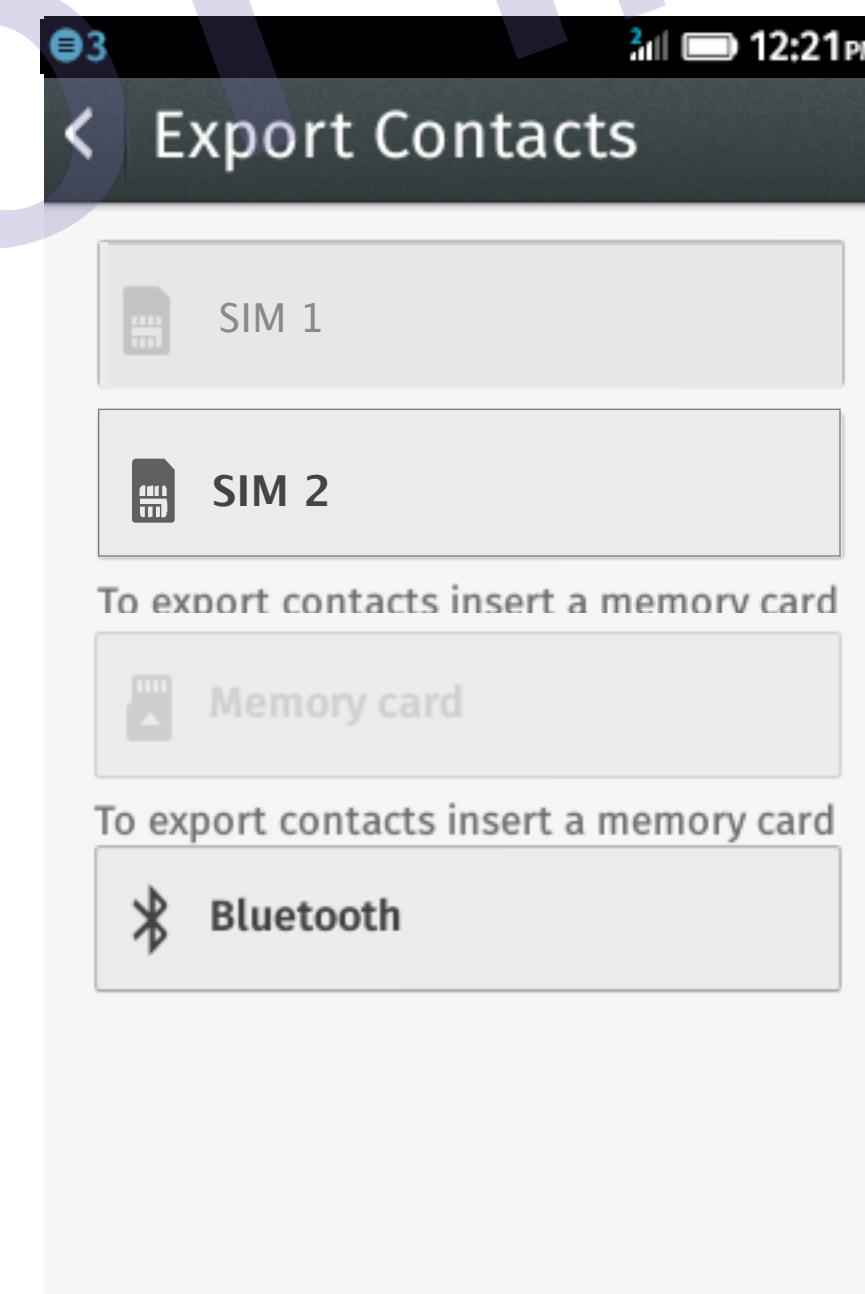
If both SIM are unlocked, go Screen 6-1.
If only one SIM is unlocked, go Screen 6-2.
If both SIM are still locked, go Screen 6-3.

6-1. [Both SIM are unlocked]



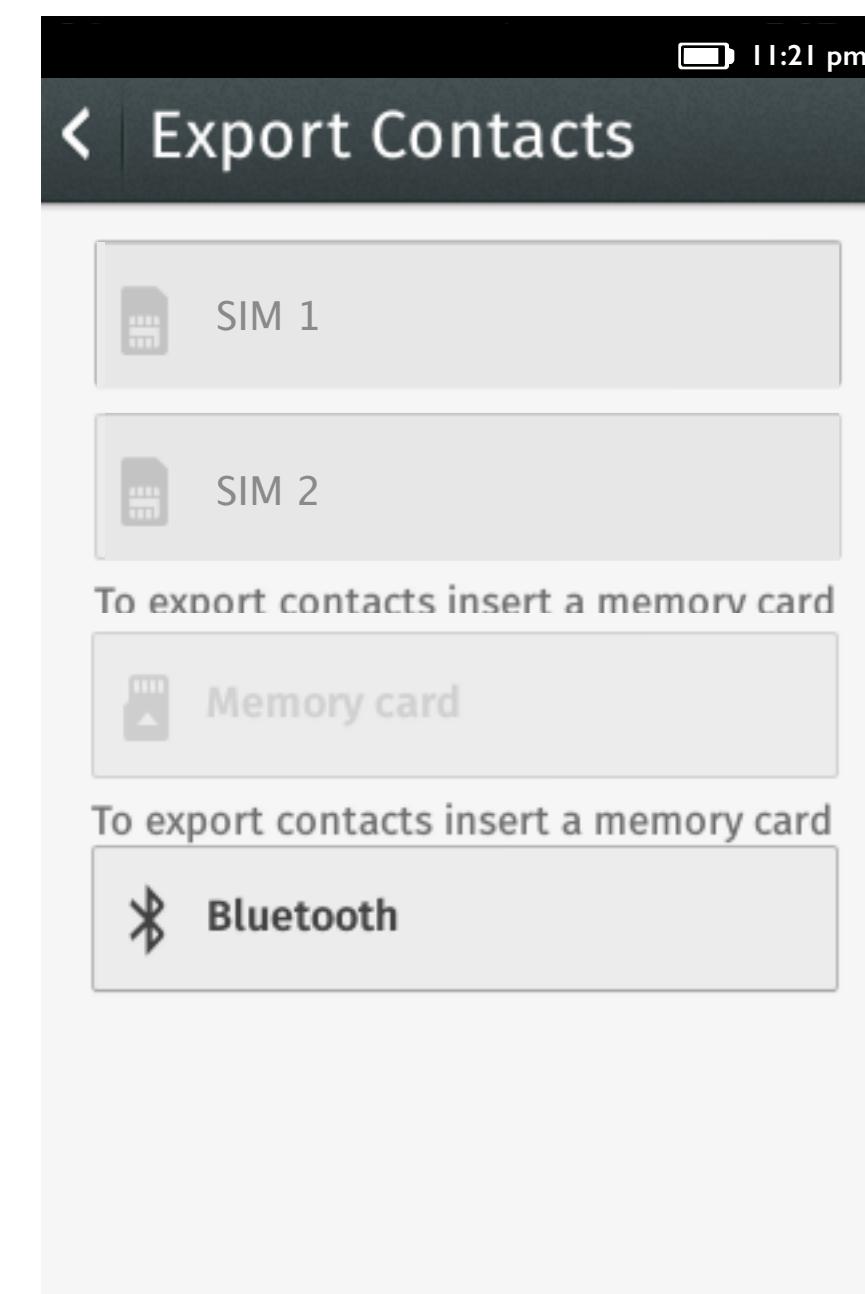
Both SIM are unlocked and the user can tap one of them to export contacts.

6-2. [SIM 2 is unlocked]



Only SIM 2 is unlocked. Hence, SIM 1 is grayed out and the user can only tap SIM 2 to export contacts.

6-3. [Both SIM are locked]



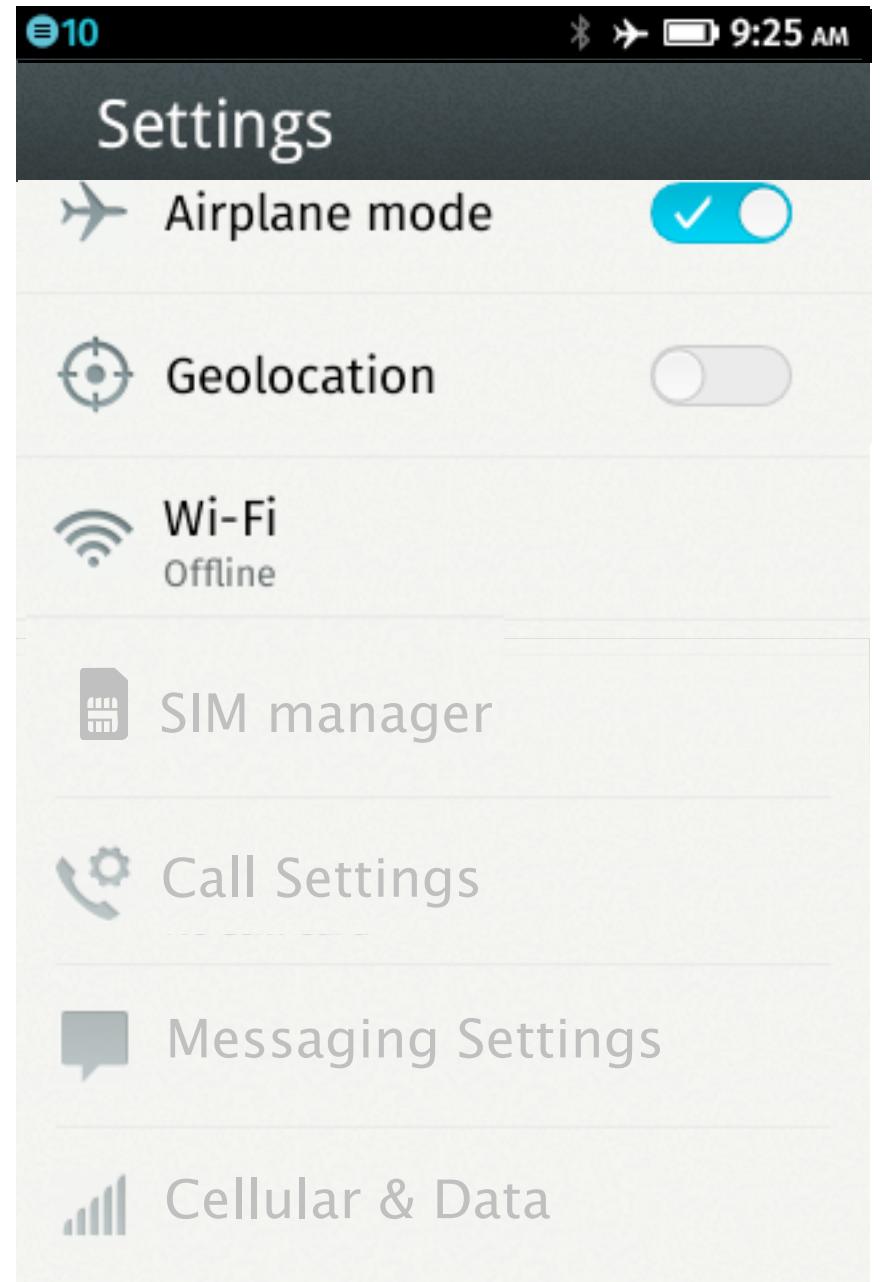
Both SIM are locked and grayed out. Both of them can not be exported.

SIM related settings

Rules of graying out related settings

updated v0.1

[Airplane mode]



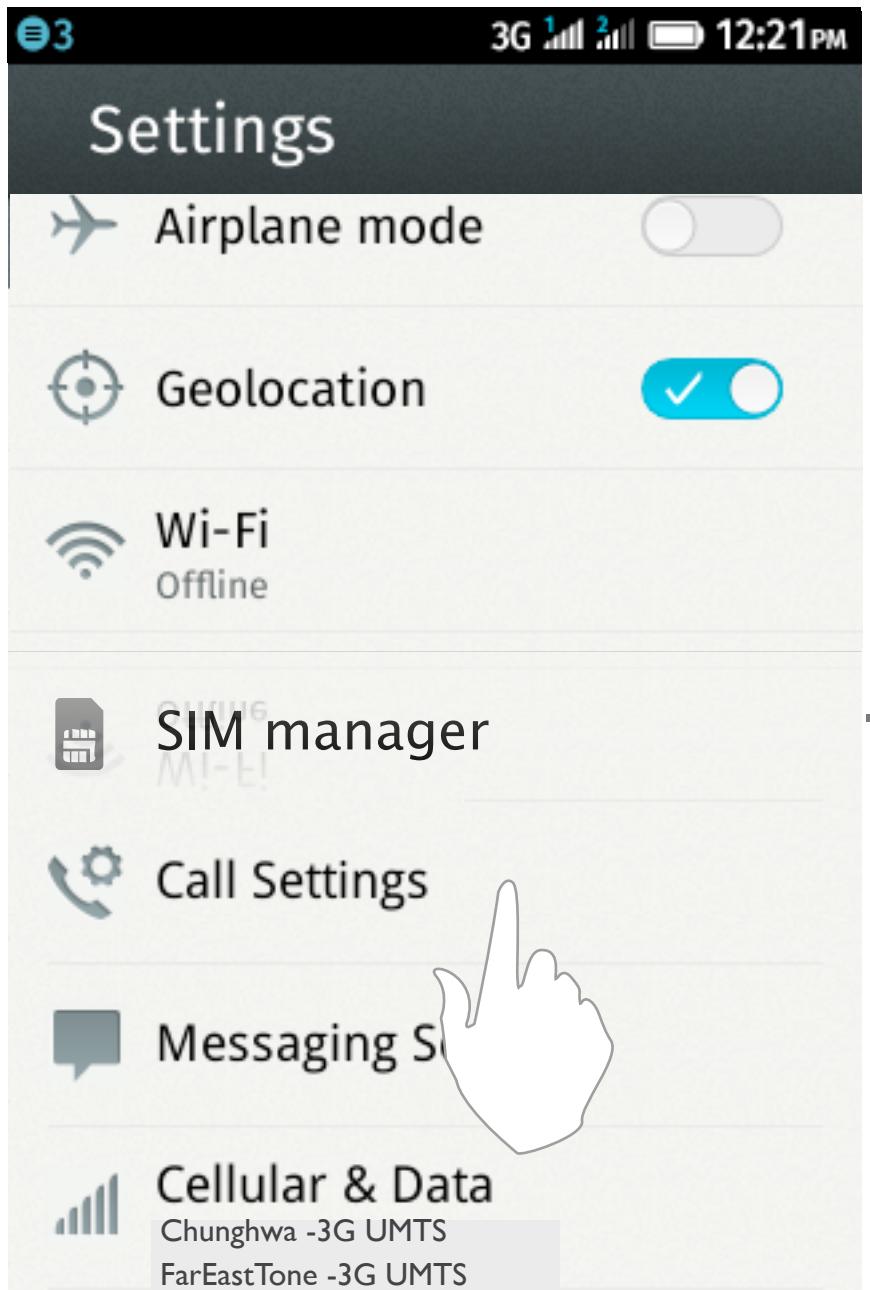
SIM manager/ Call settings/
Messaging Settings and Cellular
& Data will be grayed out when:

1. Airplane mode is on
2. both SIM are Pin-locked
3. No SIM inserted

Call settings

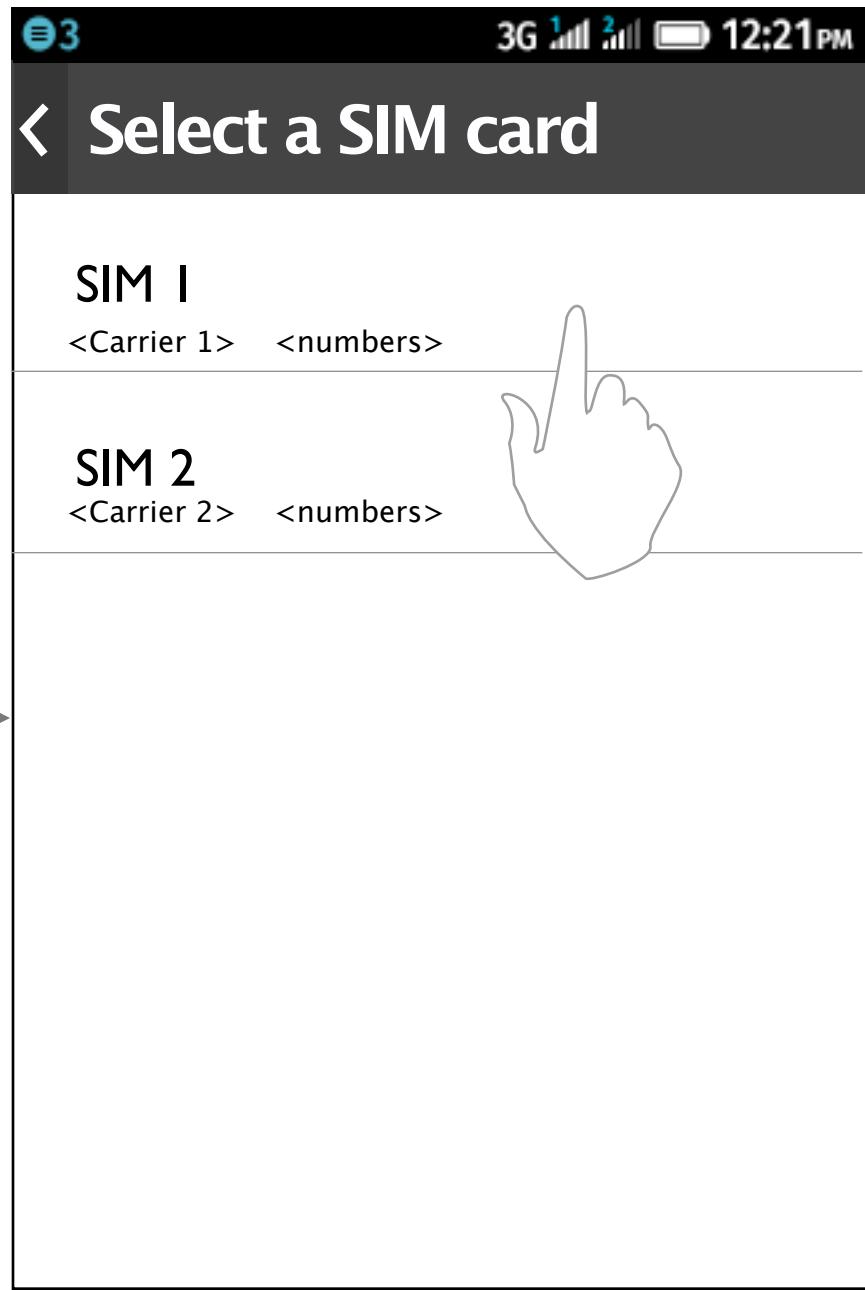
updated v0.1

1. [Settings]



Tap call settings

2. [Select a SIM card]



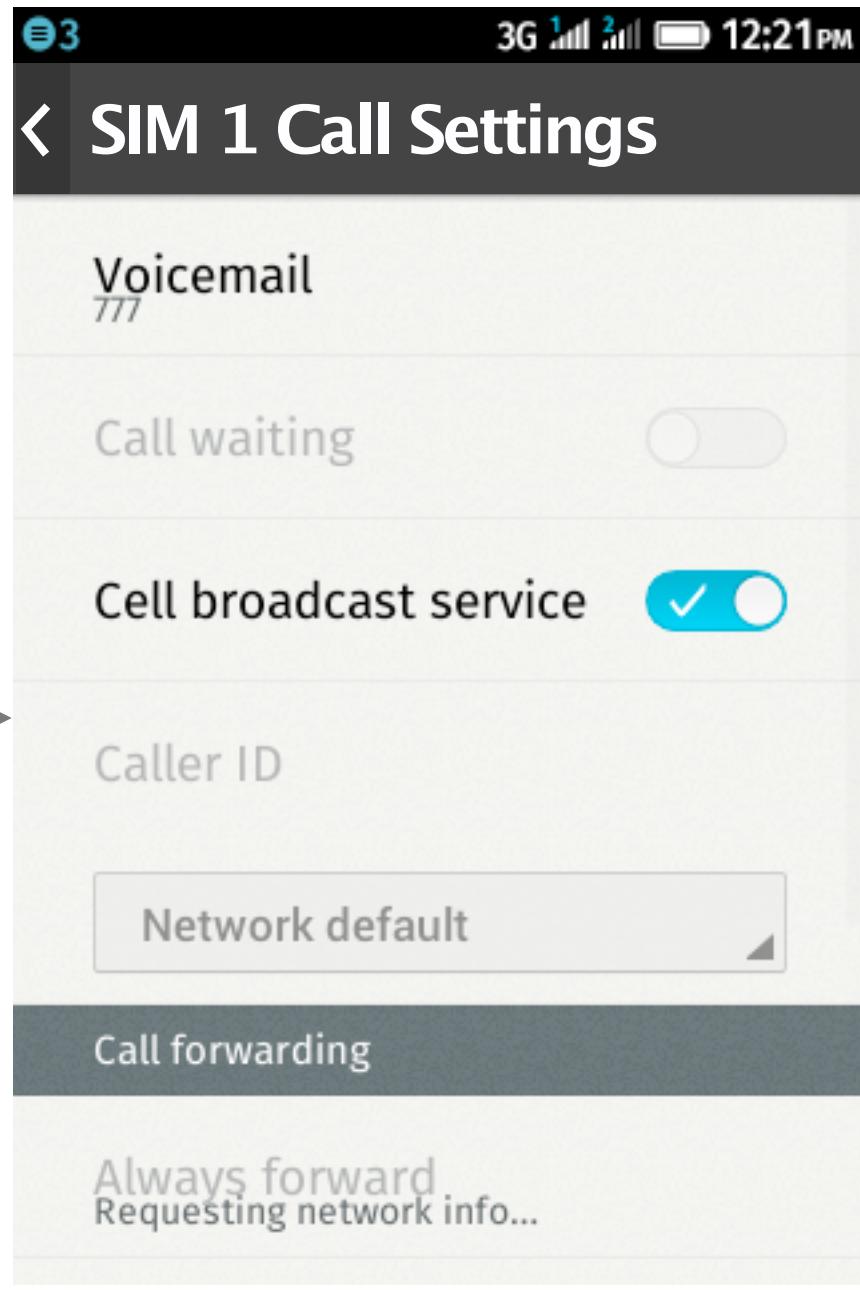
Tap Call settings

Show the carrier names and phone numbers on subtitle.

If SIM 1 is active now (in call), the item "SIM 2" will be grayed out at this time (Screen 4).

If SIM 2 is removed or PIN-locked, it will be grayed out at this time (Screen 4).

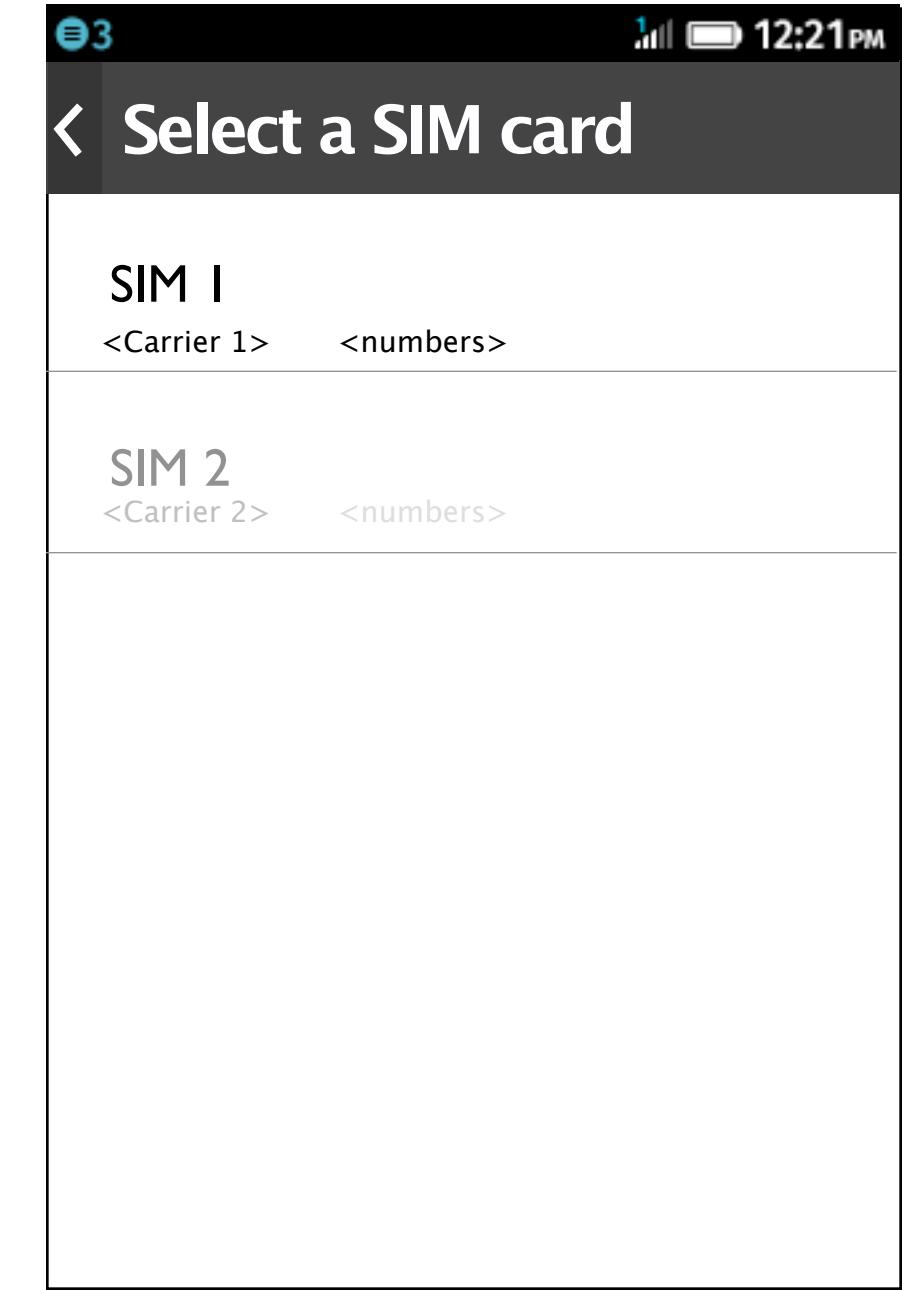
3. [Call waiting]



Tap SIM 1

All the settings are related to incoming calls. Hence all of them will show up on both SIM's call settings no matter which one is the primary SIM.

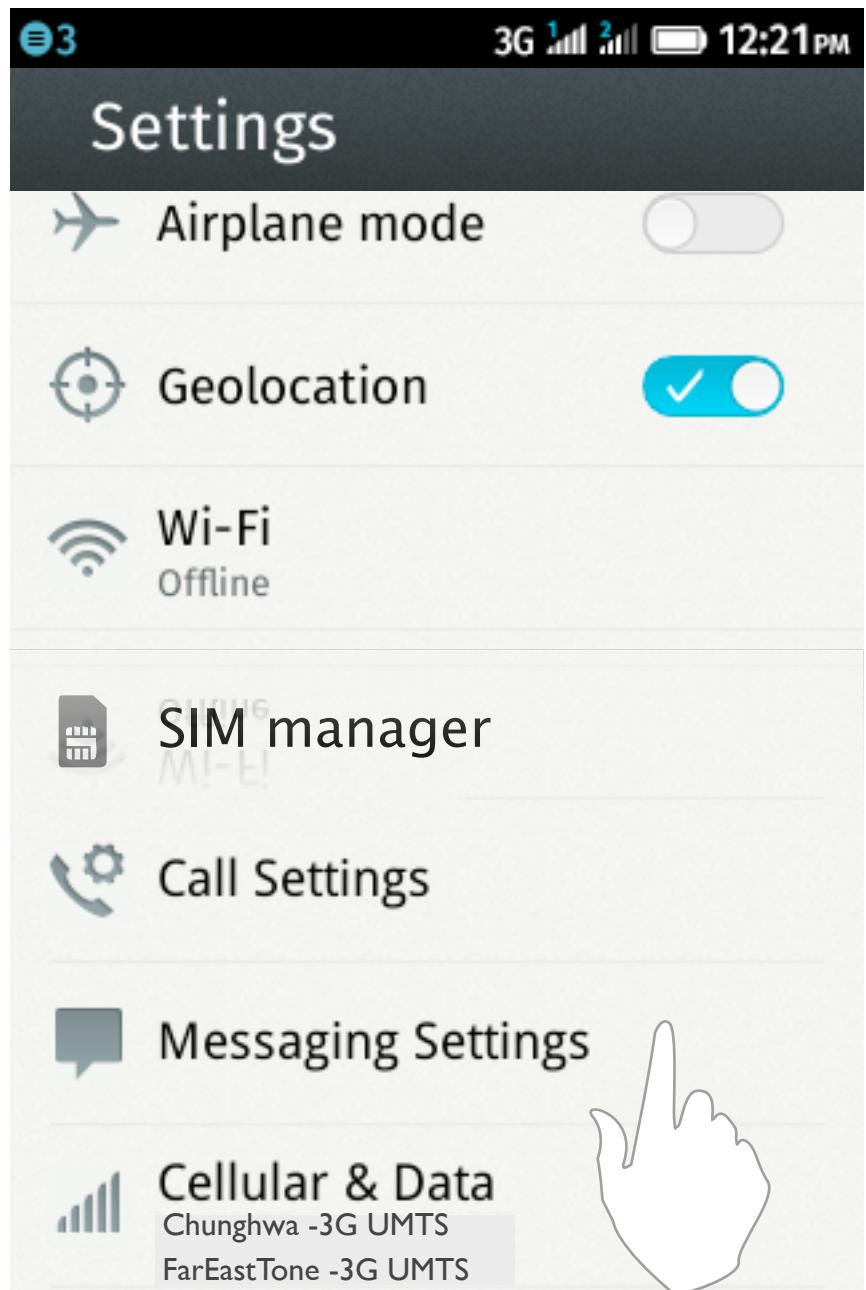
4. [SIM 2 is grayed out]



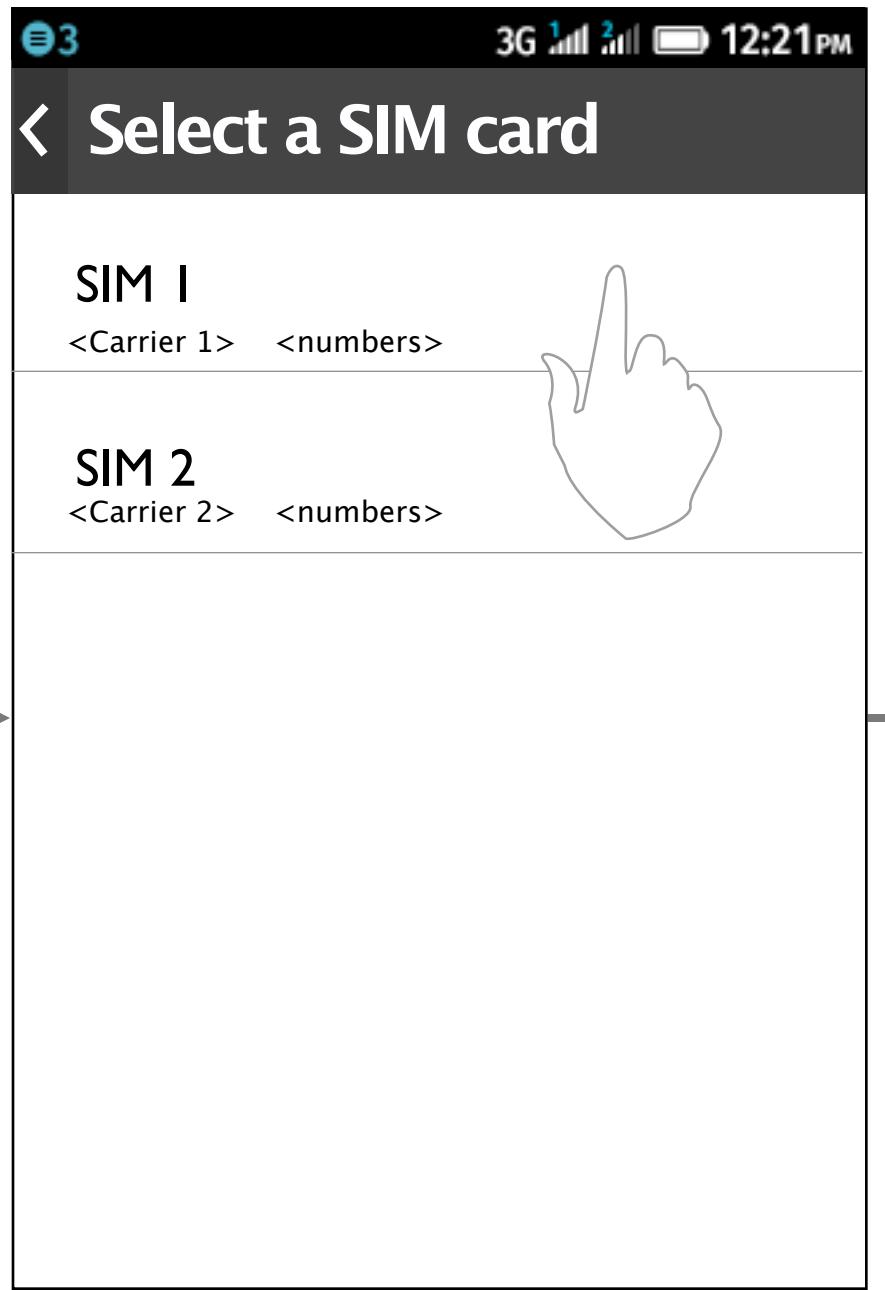
Messaging settings

updated v0.1

1. [Settings]



2. [Select a SIM card]

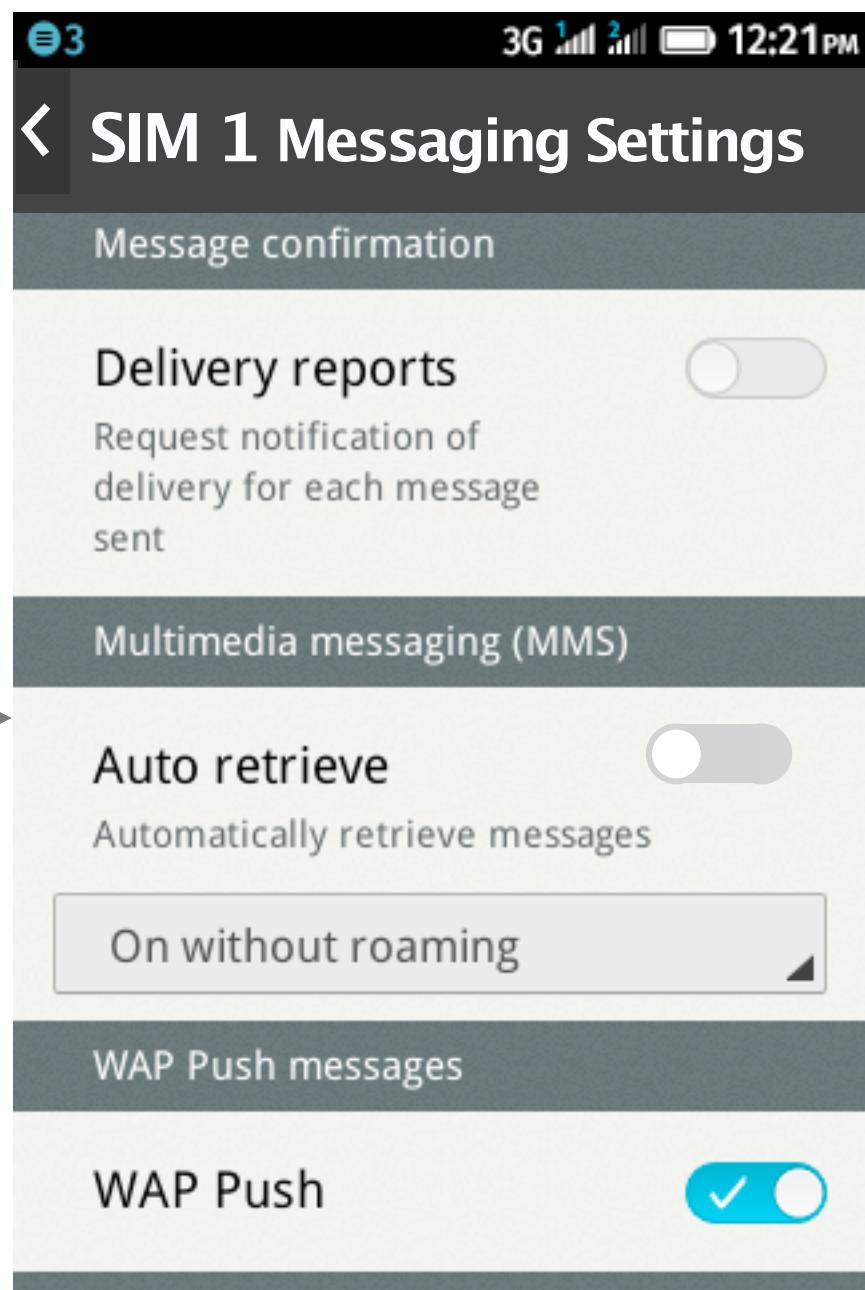


Tap Messaging Settings.

Show the carrier names and phone numbers on subtitle.

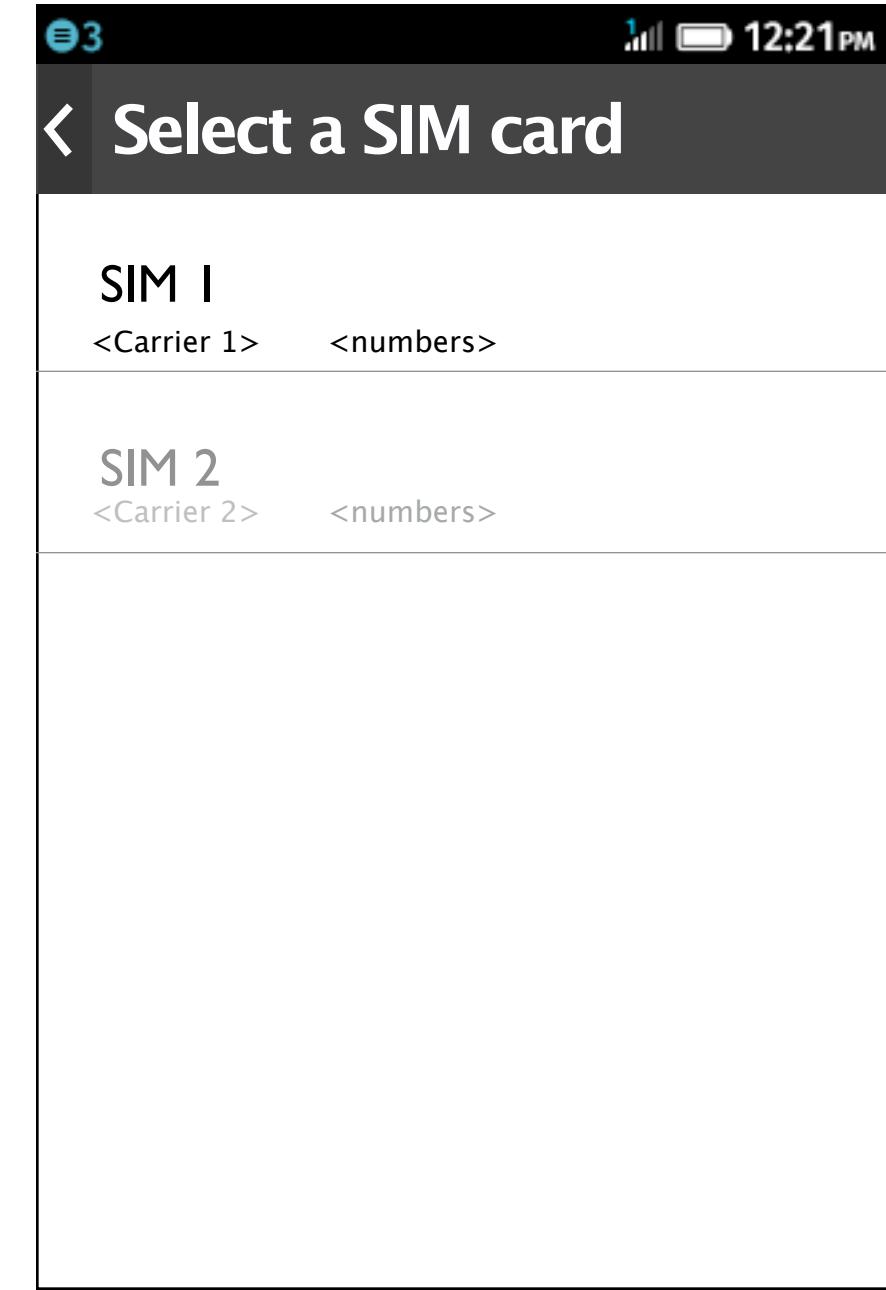
If SIM 2 is removed or PIN-locked, it will be grayed out at this time (Screen 4).

3. [SIM 1 Messaging Settings]



All of the items will show up on both SIM's Messaging settings no matter which one is the primary SIM.

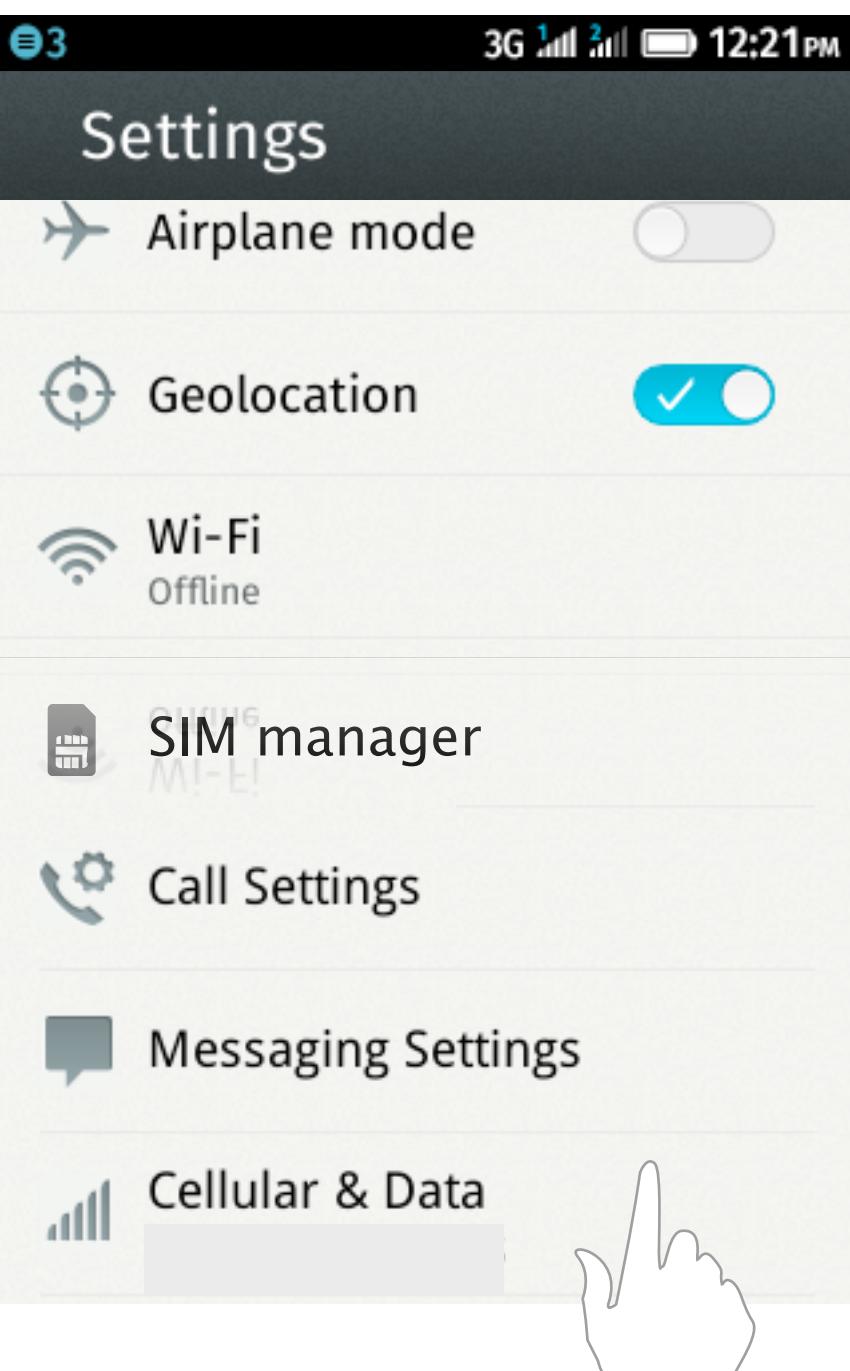
4. [SIM 2 is grayed out]



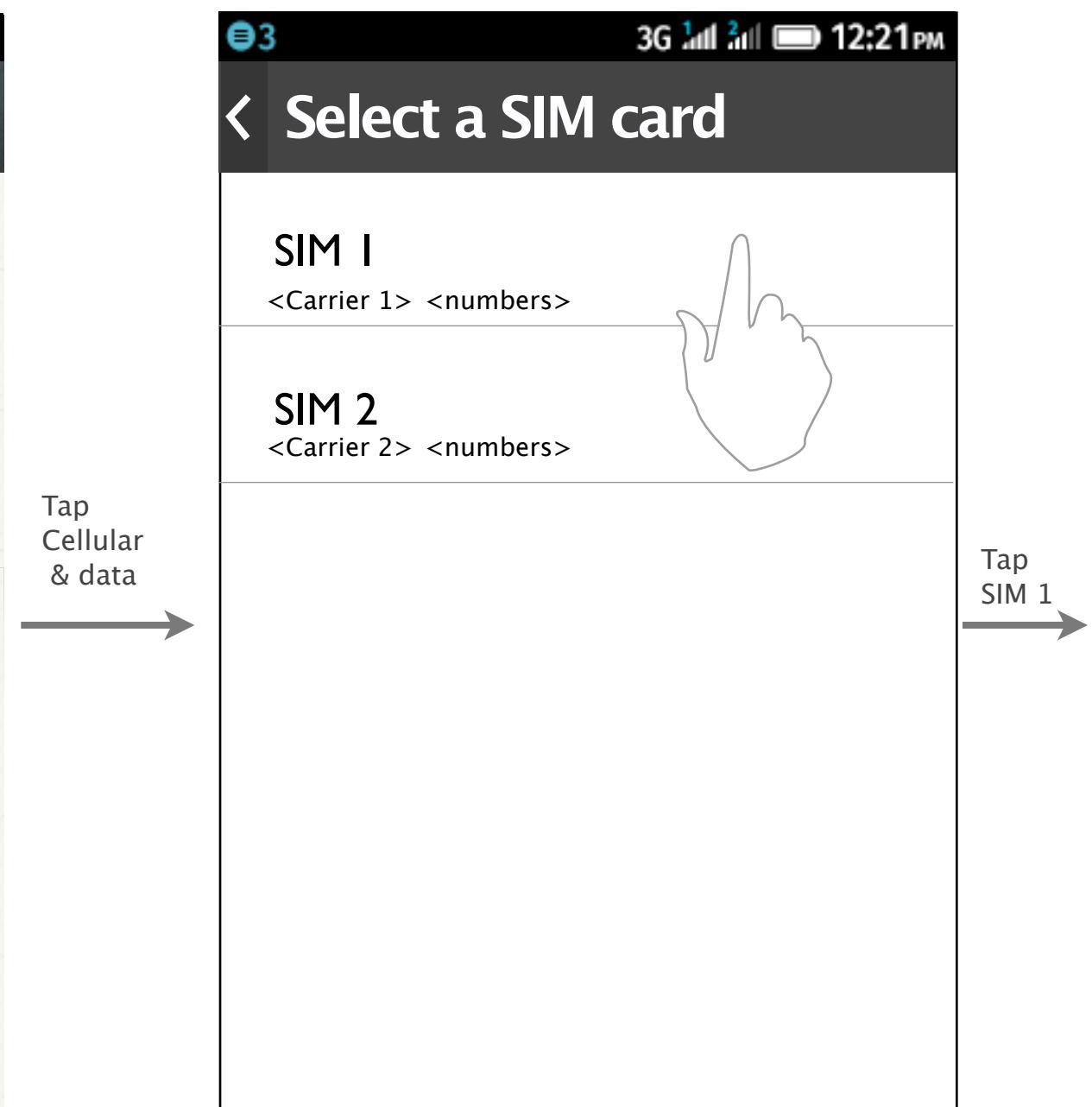
Cellular & Data

updated v0.1

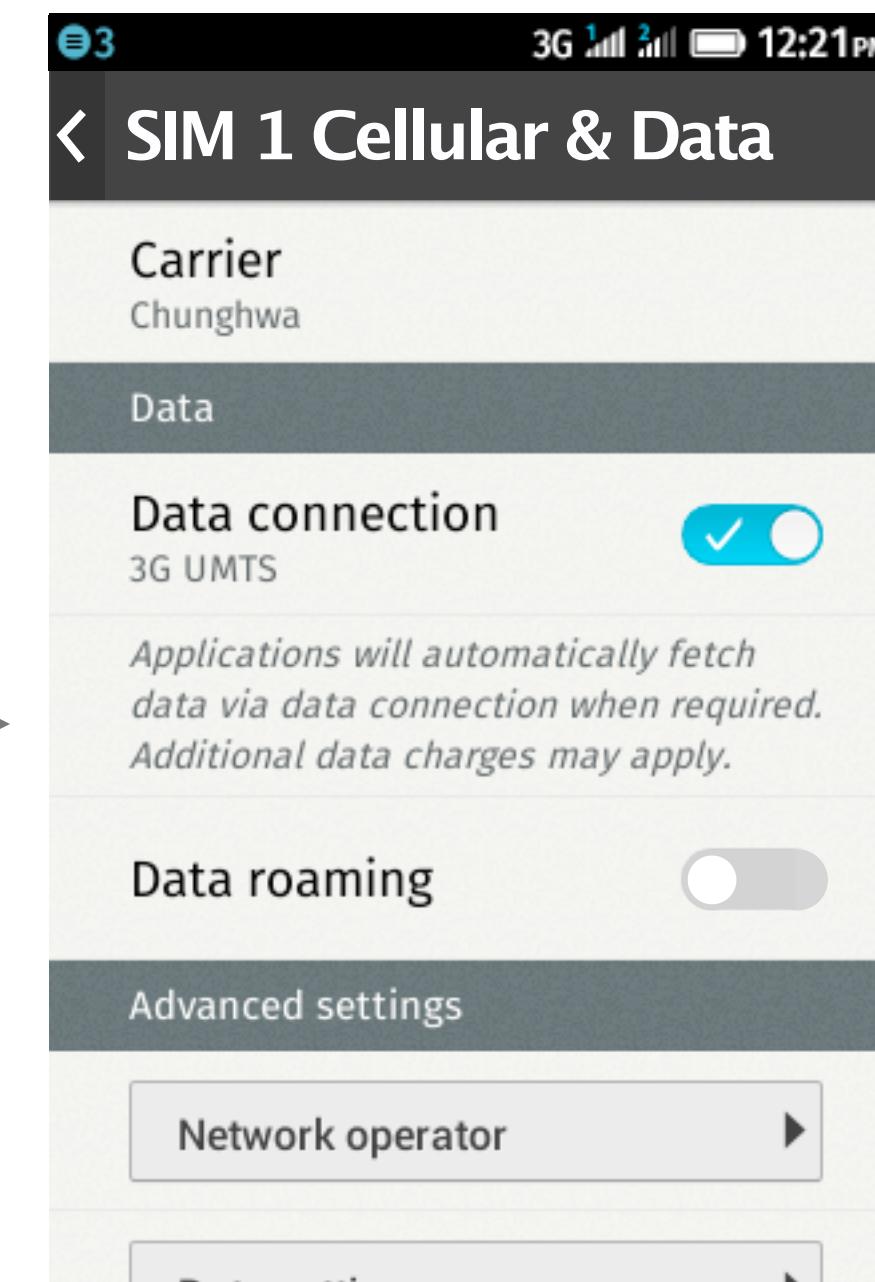
1. [Settings]



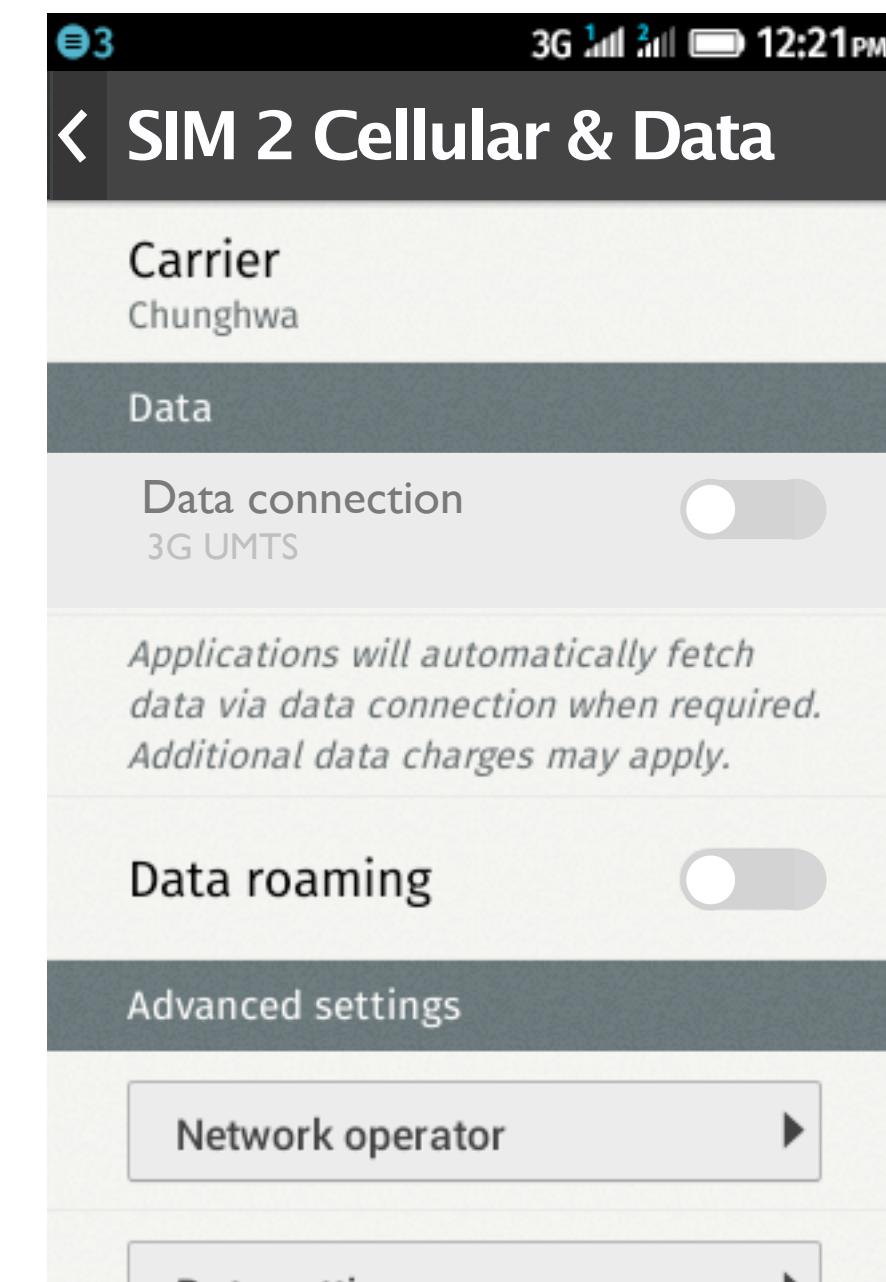
2. [Select a SIM card]



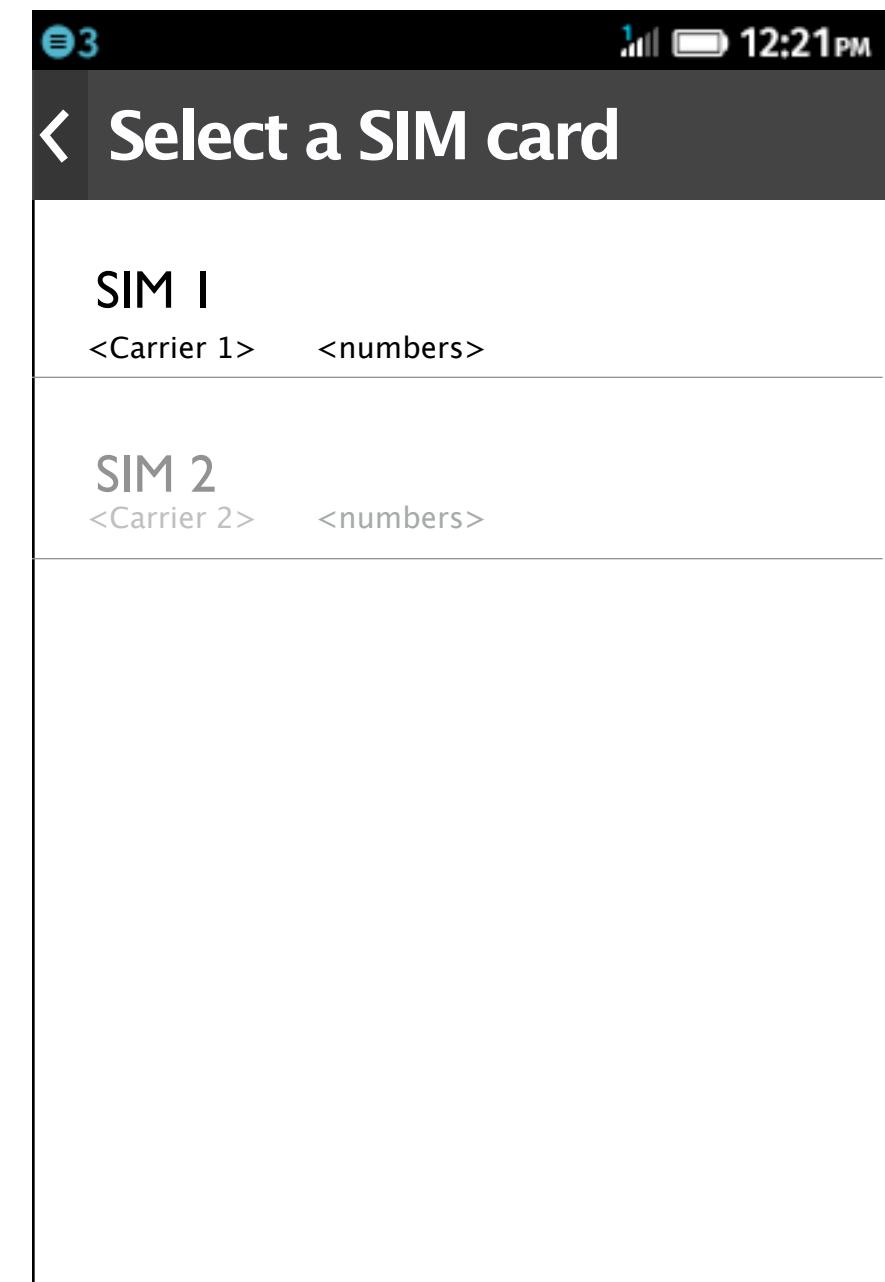
3. [SIM 1 Cellular & data]



3-1. [SIM 2 Cellular & data]



4. [SIM 2 is grayed out]



Tap Cellular & Data.

Show the carrier names and phone numbers on subtitle.

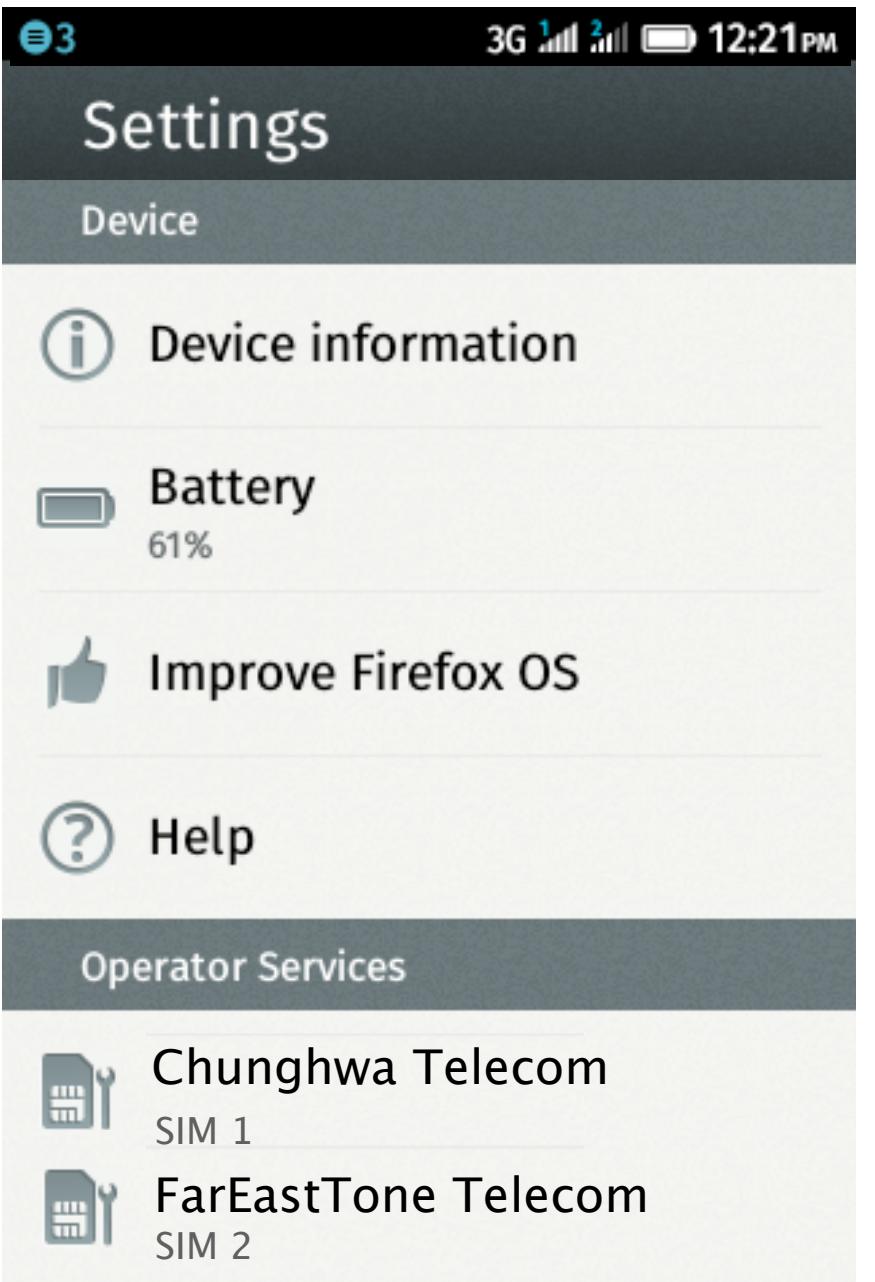
If SIM 2 is removed or PIN-locked, it will be grayed out at this time (Screen 4).

If SIM 1 is set for data connection, then the item "Data connection" will be grayed out in SIM 2 (Screen 3-1).

SIM tool kit

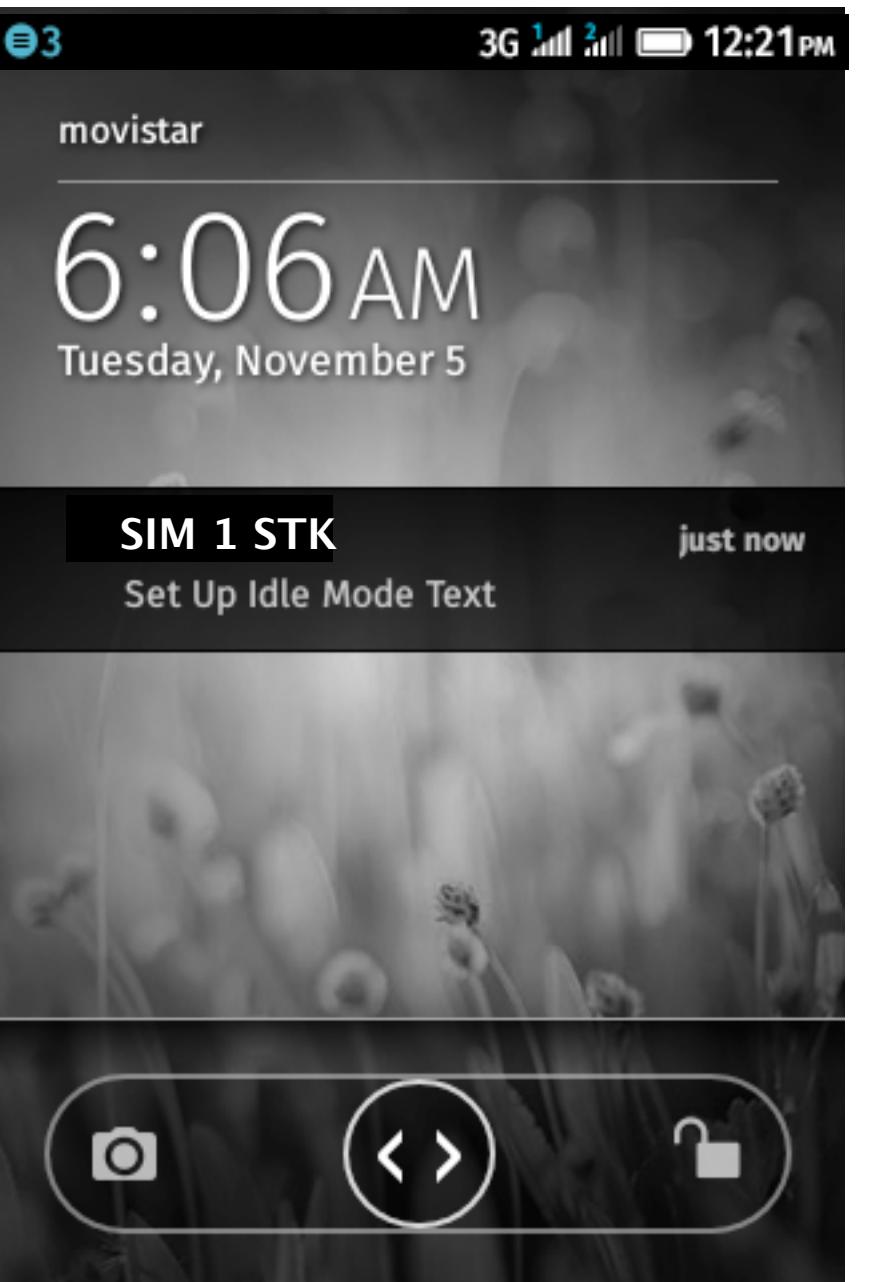
updated v0.1

1. [STK in Settings]



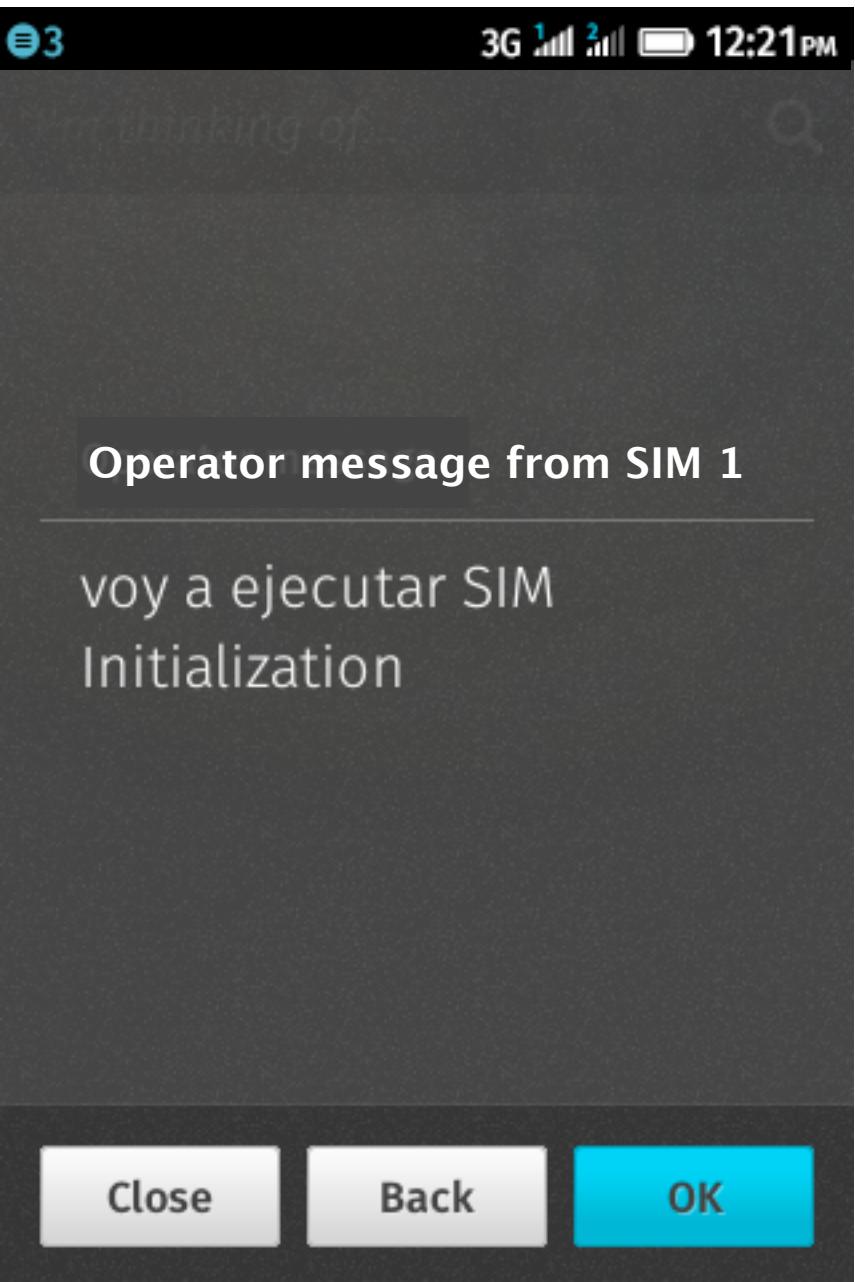
There will be two operator services in settings and the subtitle identifies which SIM it is.

2. [STK on lockscreen]



The messages sent by operator should identify which SIM it is.

3. [Message from operator]



Thanks!

from your friends at Mozilla UX!