



emea

iCall
Android NurseDesk
application



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Intended use

This document describes the implementation, programming and testing of the Nurse desk interface in the Netrix software. The goal is to send messages to the android device of the nurses, and give them an accurate overview of patient room activities, fire alarms, ...

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Revision history

Date	Revision	Description
2016-01-29	1.0	First version
2020-04-30	1.1	New layout and updated info nurse desk application V2.4.6

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1. Introduction

Any Android devices can be used for the connection with the Netrix smartphone integration. The Nurse Desk app sets up the connection to the Netrix via TCP. The IP address and TCP port of the Netrix can be configured in the app: Click on the option button in the Login screen of the app. The selected IP address and TCP port will be saved on the smartphone.

A polling between the Netrix and the smartphone helps to discover a broken connection. The polling speed can be configured in the Netrix.

Each call will be sent to the smartphones with a numeric ID. When a new call is received by the app, the app will know it missed a call, in that case, the app will ask the Netrix to resend all current calls.

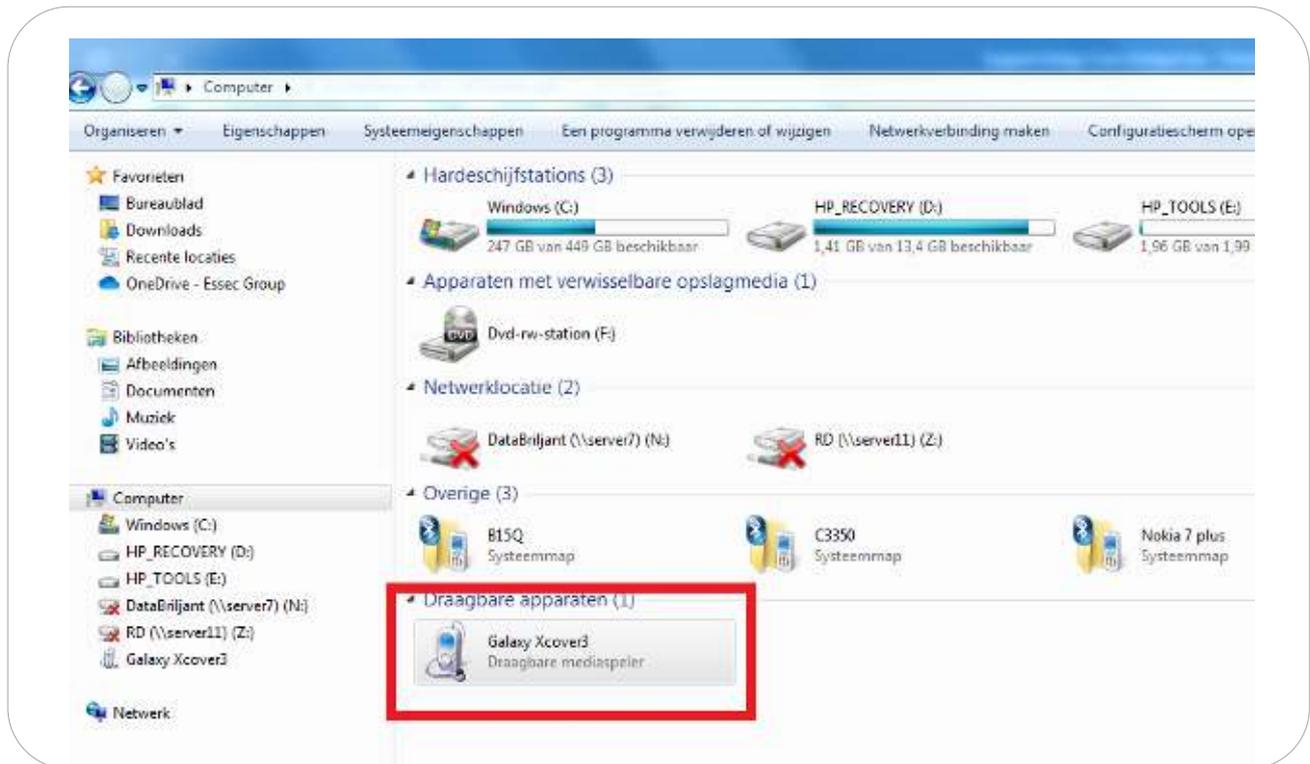
In case of a lost connection the app will automatically retry to reestablish the connection and request the Netrix to resend all calls.



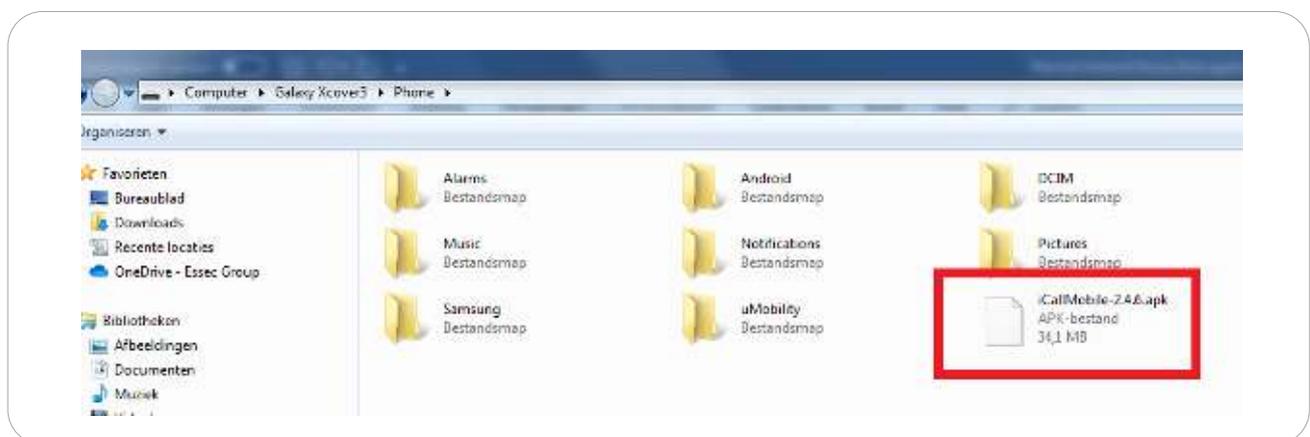
2. Installing Nurse Desk application

2.1. Copying the apk to your android device

Connect your Android device with a USB cable to your computer. Connect it as “Media device”. Now you should see your device as a drive on your computer.

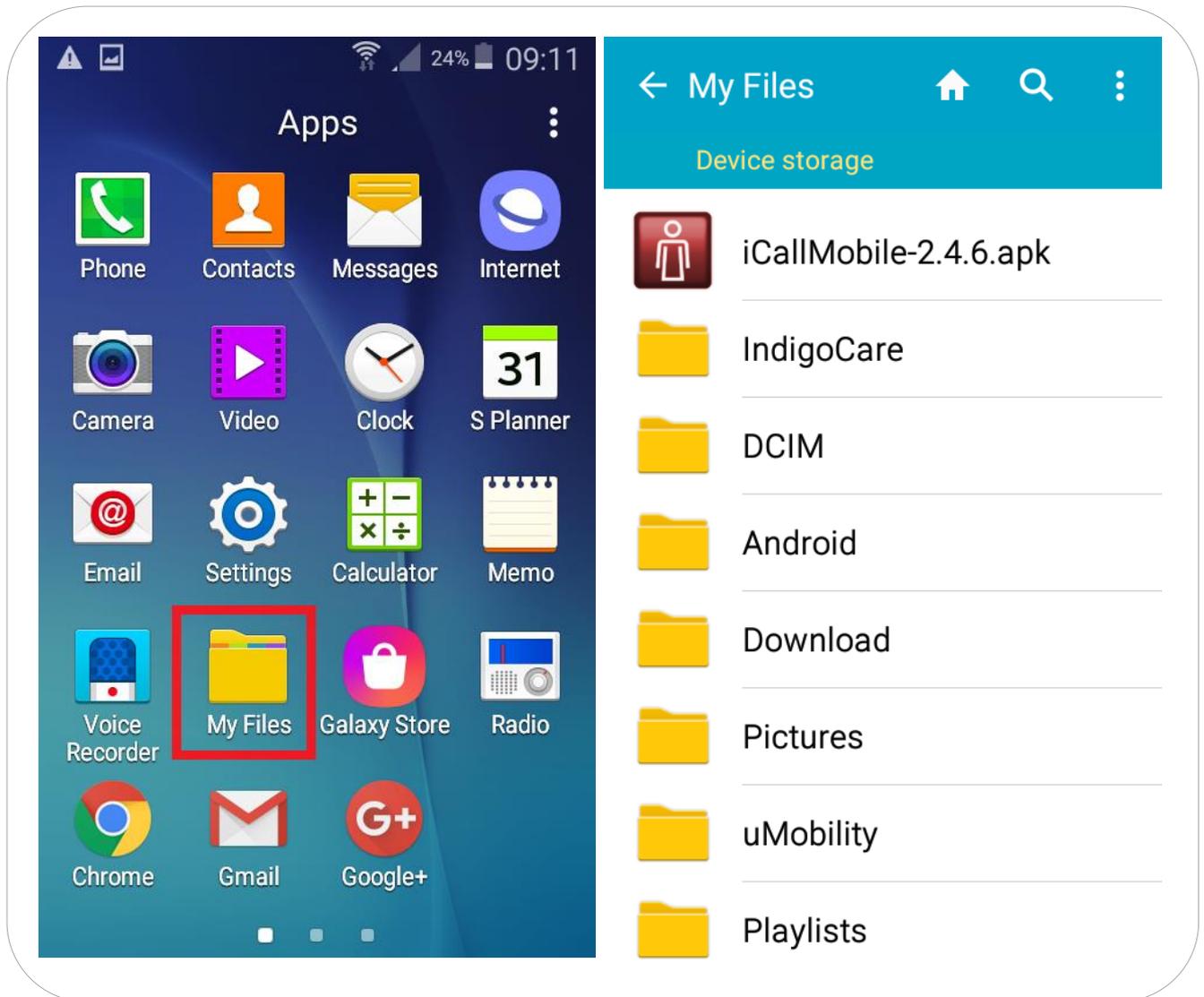


Open the Phone storage and go the preferred folder, then copy the iCallMobile apk into this folder.

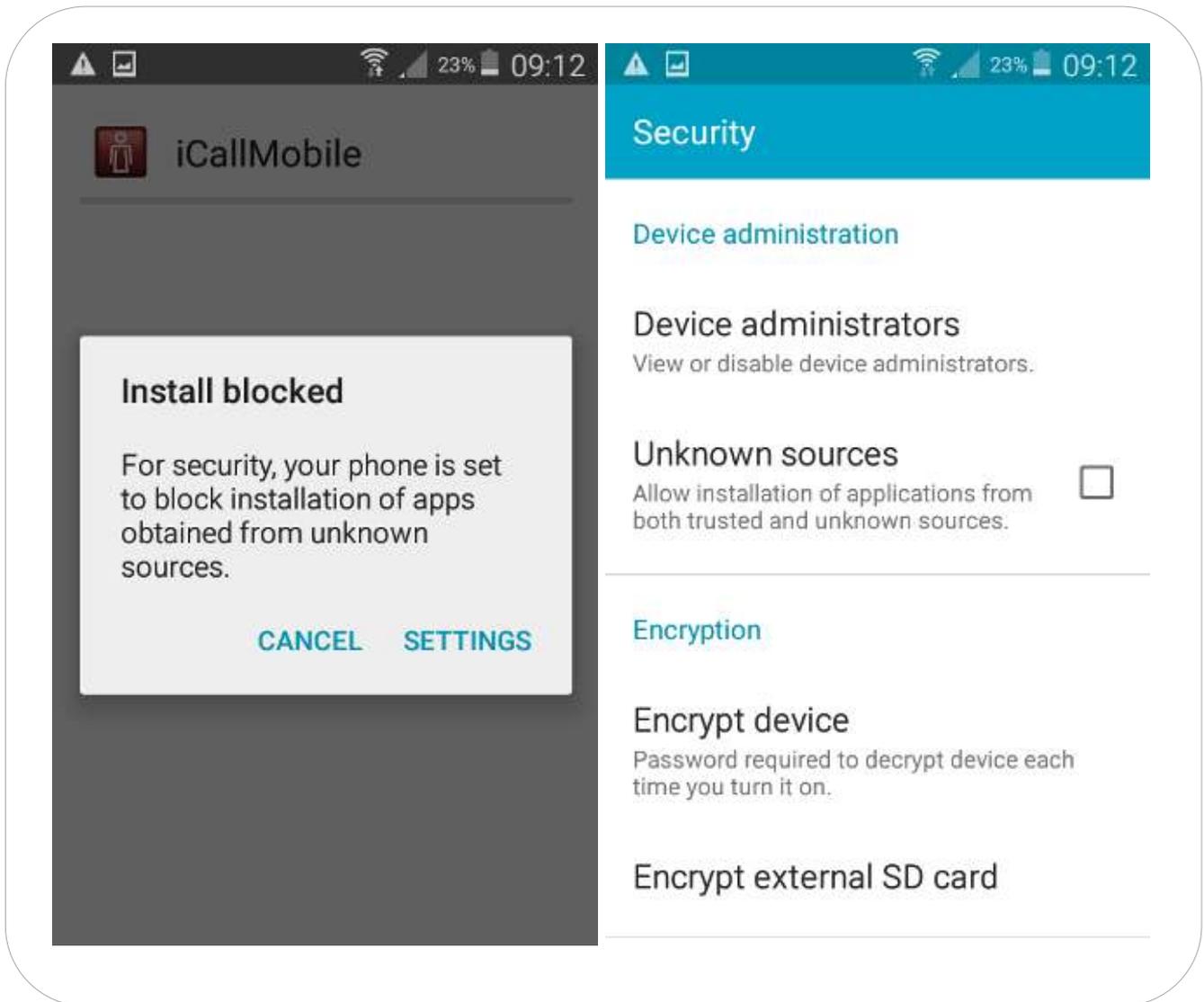


2.2. Installing application

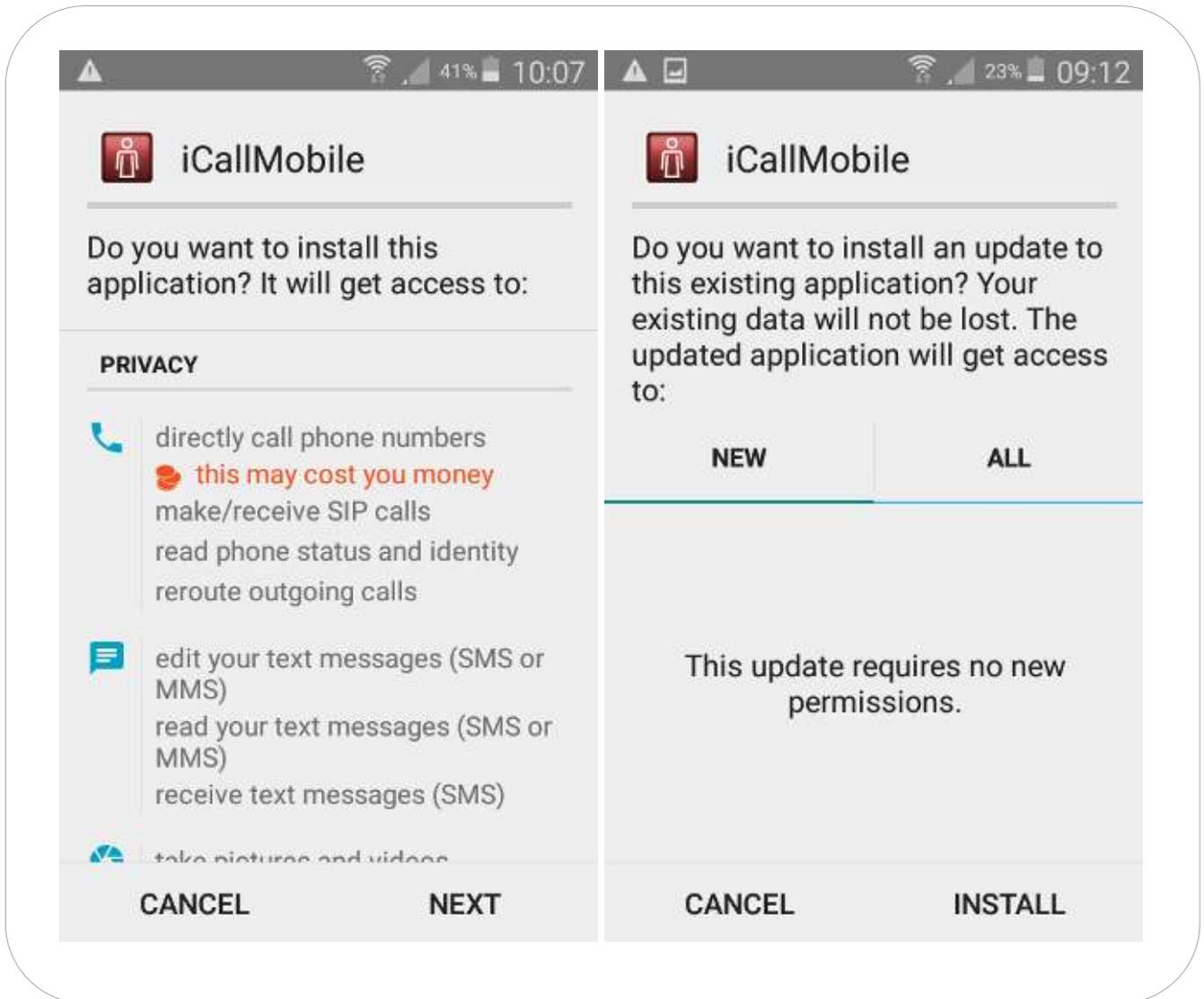
Open the file manager on your android device, then open de device storage until you reach the folder where the apk was copied to. Click the apk to install.



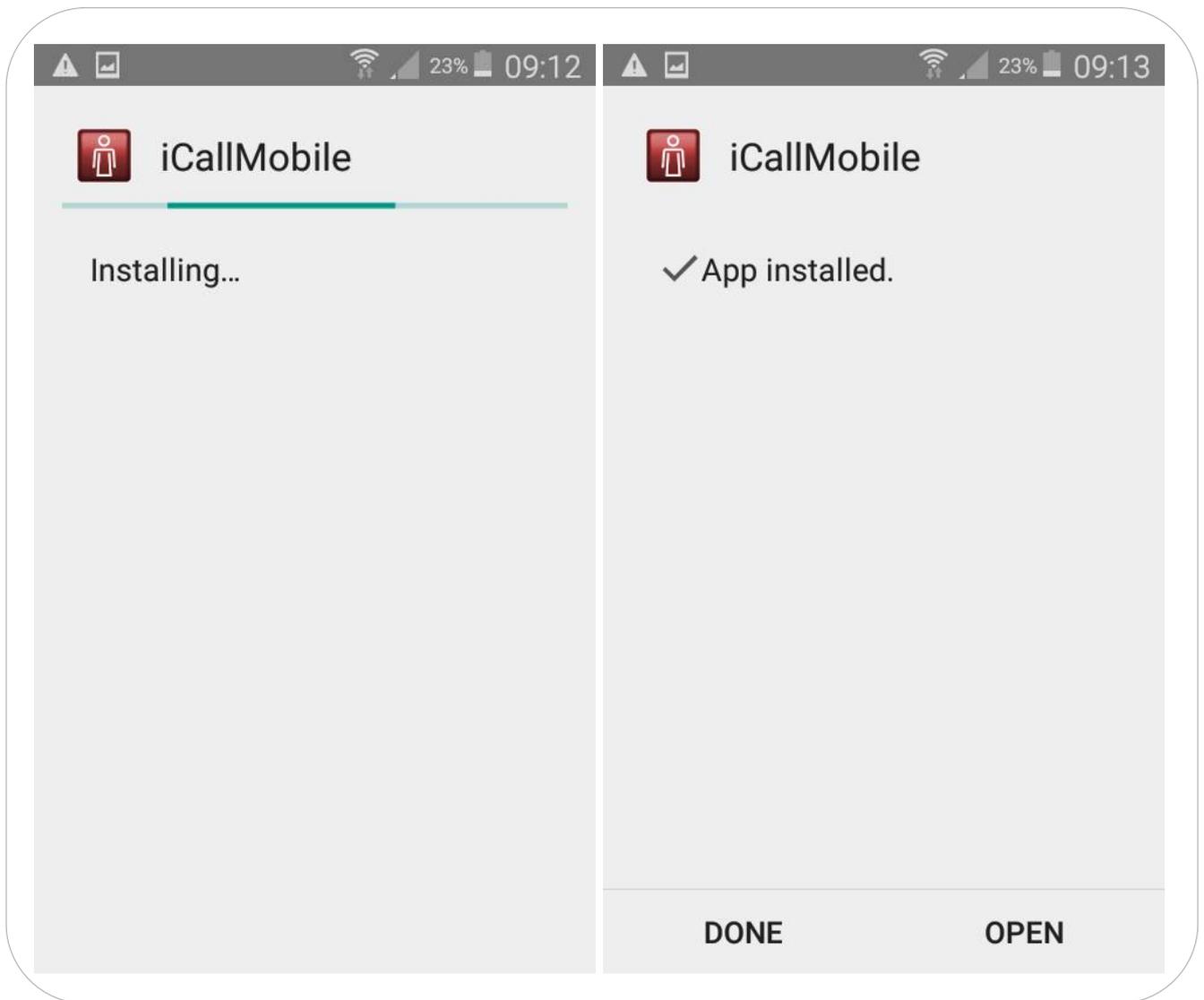
It could be that your android device blocks the installation of unknown applications. Open the settings and enable the unknown resources button. After enabling the installation will proceed.



Depending if it's the first time or you are updating the Nurse desk application you will see one of the screens below. If it's the first time you will get an overview to what the application will get access to, press the next button to proceed with the installation. If you are updating, you just press install to proceed.



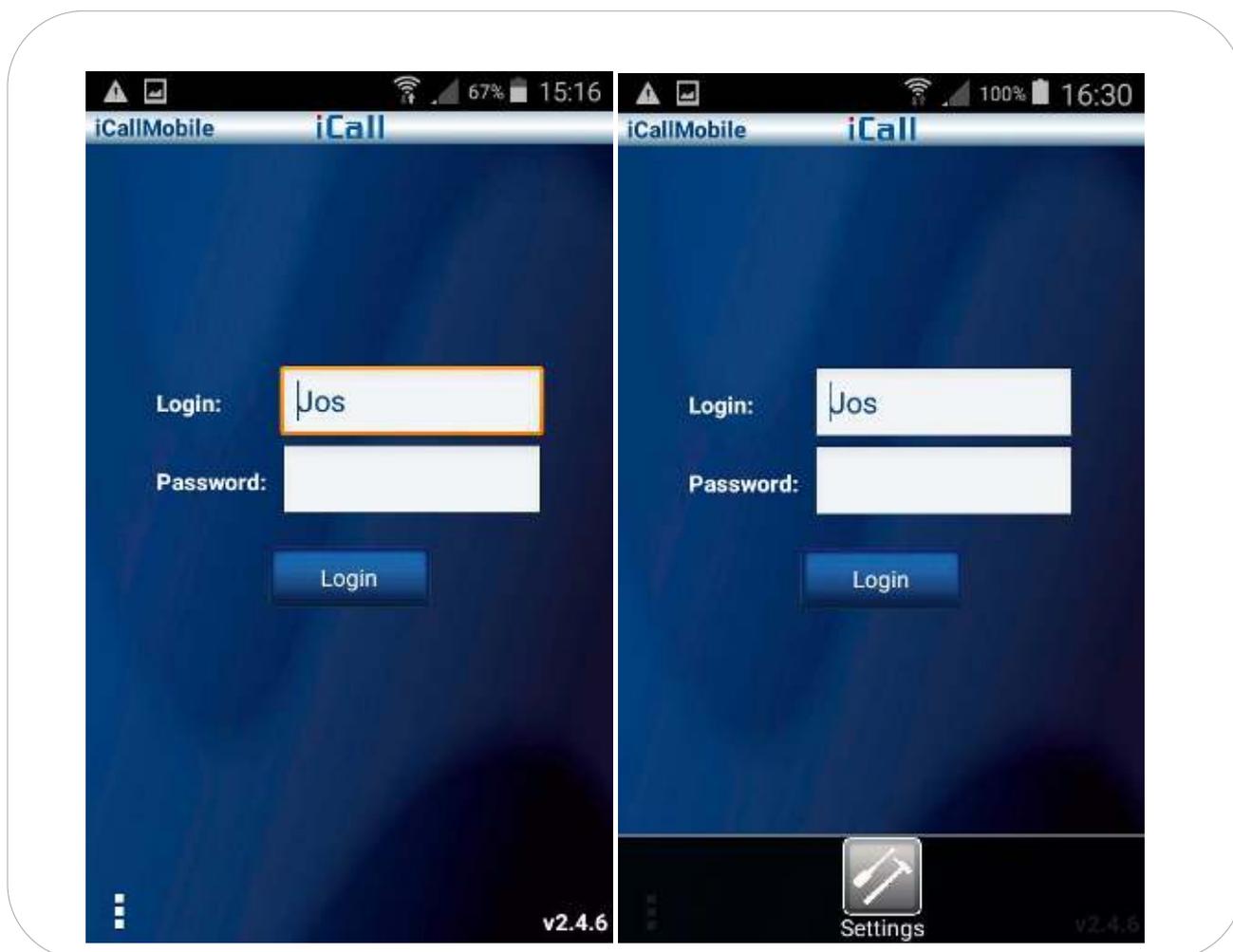
After installing you can open the installed application.



3. Nurse Desk application

3.1. Login Screen

When starting up the application you will see the login screen. In the bottom right-corner you will find the software version. Fill in the correct login credentials to proceed, these credentials are the ones created in the Netrix Smartphone license. Press the options button on your android device or the 3-dot icon to open the config screen, here you can alter the Netrix connection settings.

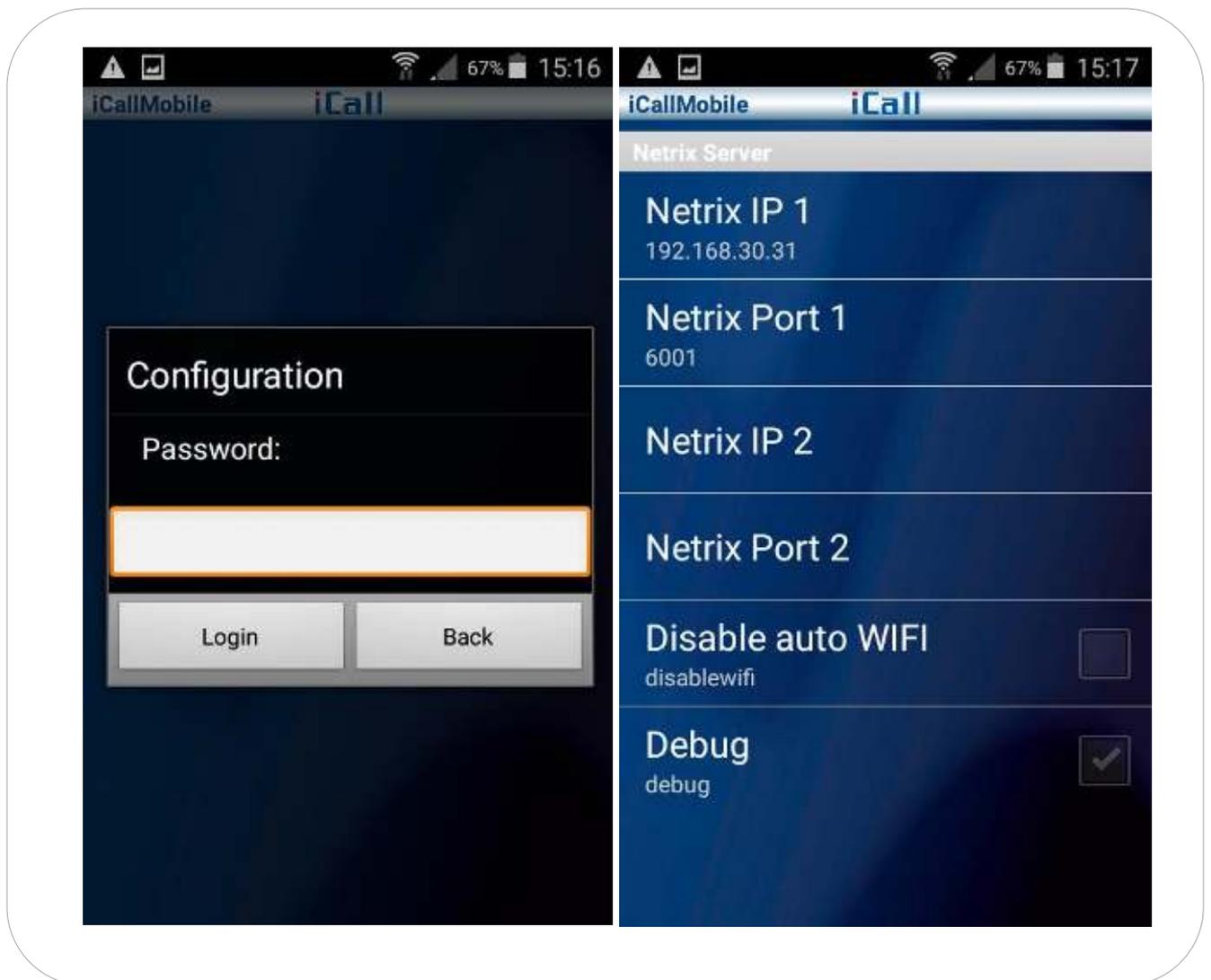


TIP: An account starting with “demo” will prevent the smartphone to go into sleep mode. Logging in with the following credentials demo0/demo0 works without Netrix communication.

3.2. Configuration screen

After you clicked the Settings icon on the Login Screen, you can log in with the administrator password “icmobile” to set the Netrix IP and port. If these settings are left empty, the App will try to connect to our default Netrix IP and port. (10.1.1.10:6001)

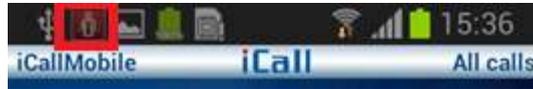
A redundant Netrix IP and port can also be filled in. When connected to the redundant server, the App will try to reconnect with the main Netrix after 5 minutes.



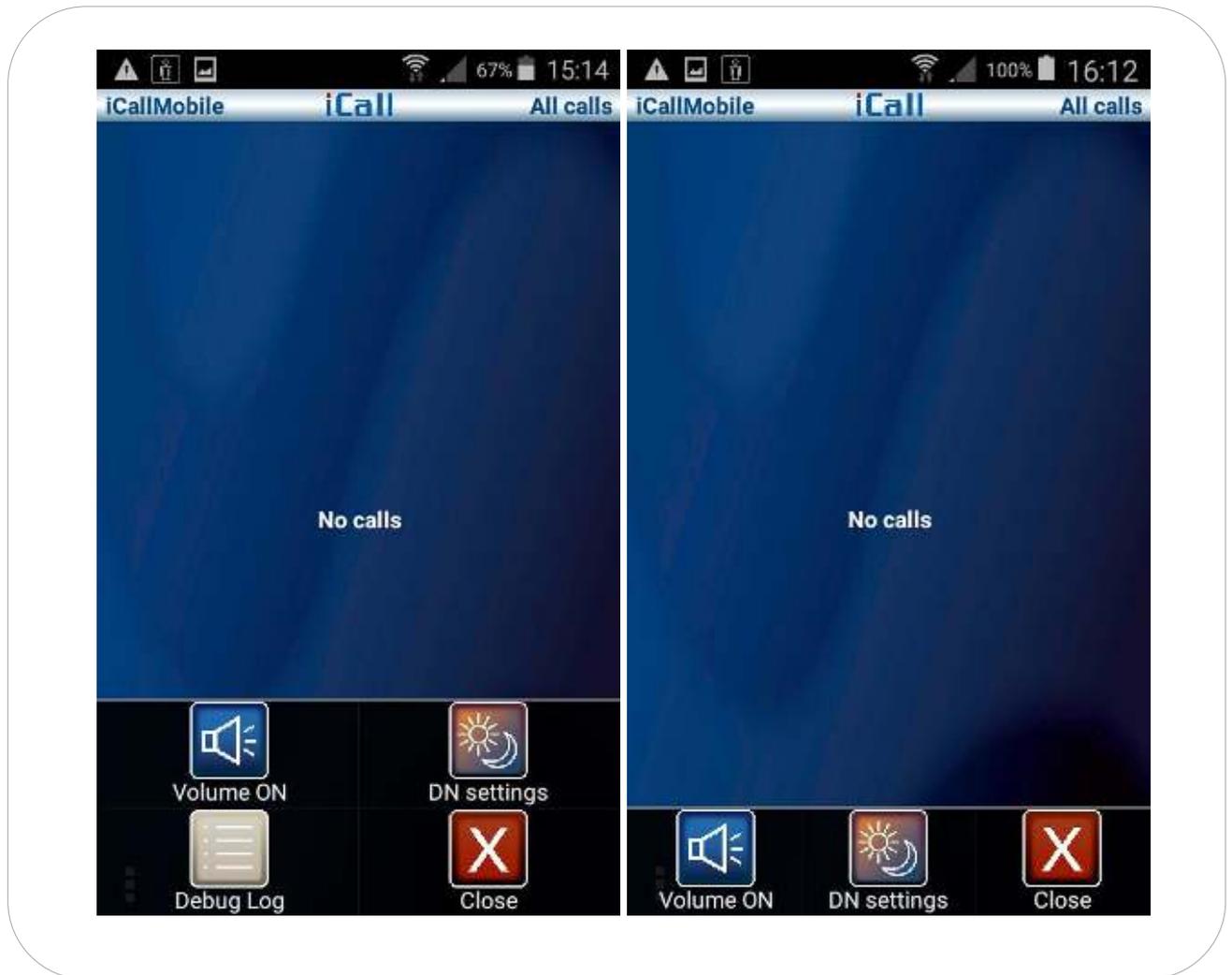
The disable auto WIFI and debug cannot be altered, this is just an indication if these functions are enabled or disabled in the configuration of the user in the Netrix. To go back to the login screen press the back button on your android device

3.3. Call overview screen

All current open nurse call activities will be displayed after logging in. An icon (see image below) in the taskbar will confirm that the connection to the Netrix has been established.



Press the options button on your android device or the 3-dot icon to open additional settings and options. Depending if the debug log was enabled you will see 4 or 3 icons.



3.3.1. Buzzer Volume off/on



Standard the buzzer is activated, pressing this will disable the buzzer for 3 minutes, except for the Code Blue and Emergency type, these calls will still be heard. An icon above next to the iCall logo will appear showing that the sound is disabled. You can always enable the sound back again before the 3 minutes are over.



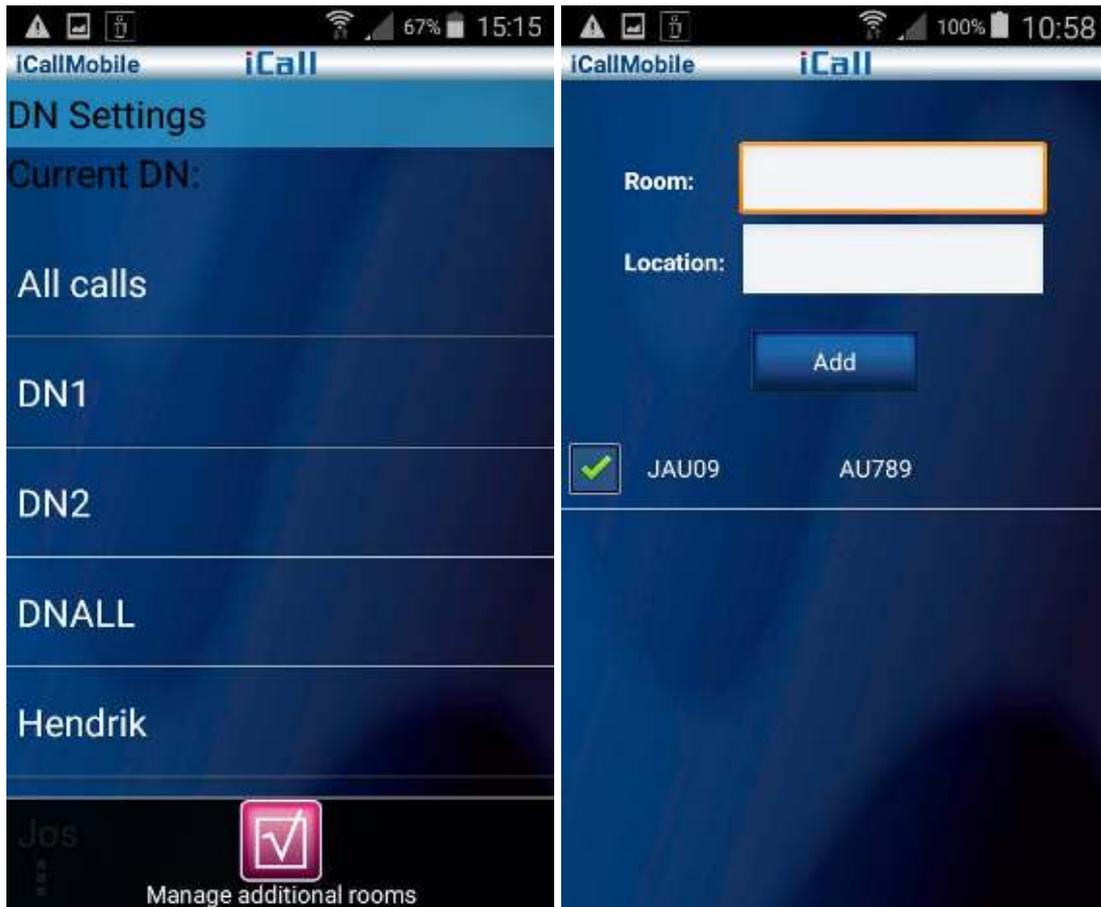
3.3.2. DN settings



The DN settings list is received from the Netrix once the user logs in onto the app. The user can then click on a DN setting to activate it. The selected DN setting will be saved on the Netrix.

Since all DN settings for all users are saved on the Netrix any calls left unmonitored will be identified by the Netrix. In this case the Netrix will send these to its default group.





In the DN setting screen you can press the options button on your android device or the 3-dot icon this will show the “Manage additional rooms” icon. Press this to add additional rooms to a chosen DN setting.

Fill out the room and location field and press “Add” to active a new room.

Enable or disable the room by checking the checkbox.

Press and hold (the added location on screen) to delete the room. The user settings will be saved when exiting this screen.

3.3.3. Debug Log



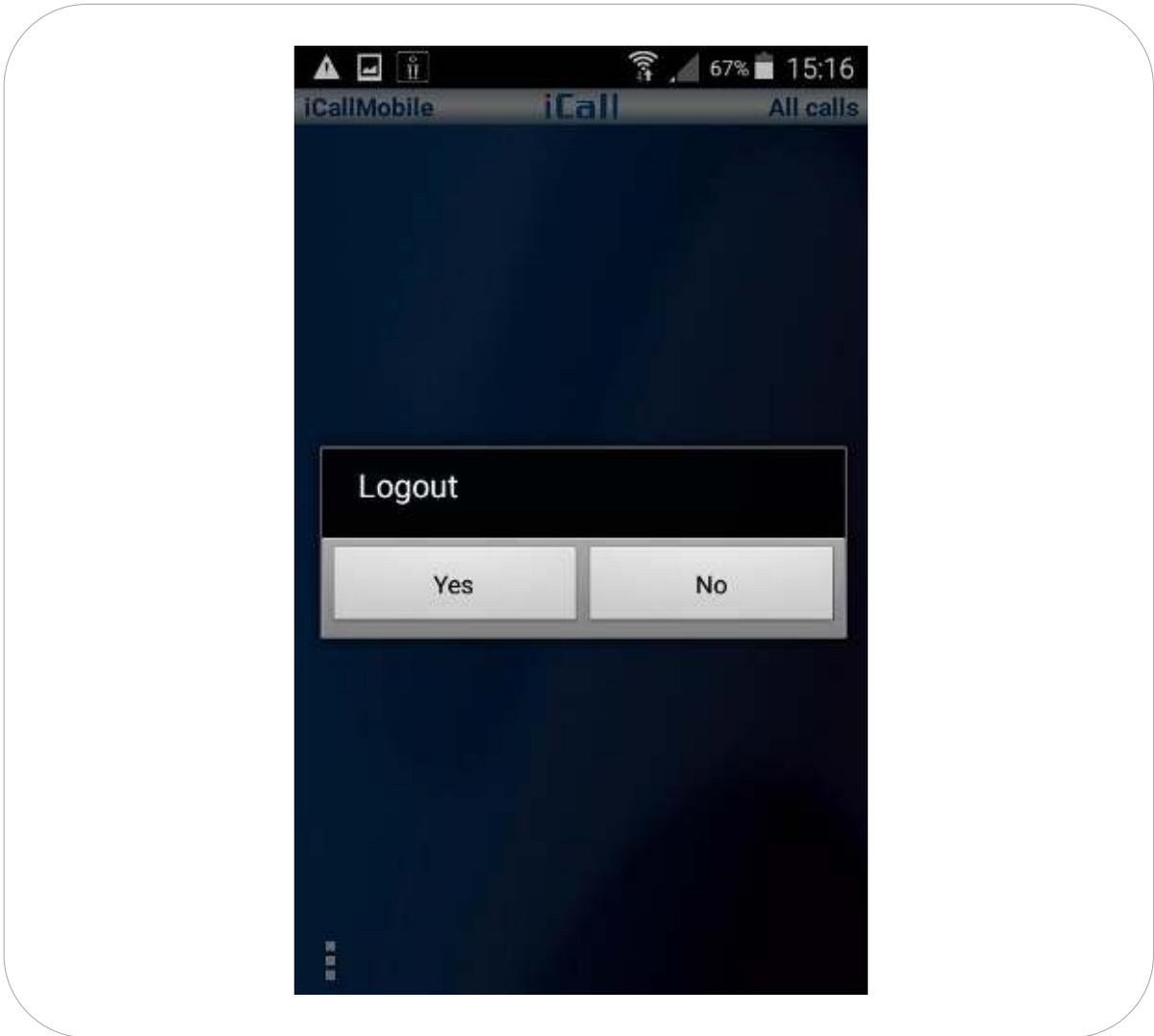
The debug log shows info about the communication between the application and the Netrix. This option is only enabled in the Netrix in case of debugging.

```
24 Mar 2020 15:05:54
ProgressUpdate:REFRESH
24 Mar 2020 15:05:54 PhoneState:Idle
24 Mar 2020 15:05:54 TCP
Client.handleTCPData:
[SOH]2500[STX]01[US]1[RS]02[US]Emergency
[RS]03[US]-65536[RS]04[US]-1[RS]05[US]2[RS]
06[US]False[RS]07[US]0[RS]08[US]True[RS]09[
US]300[RS][ETX]
[SOH]2501[STX]01[US]2[RS]02[US]Assistance
[RS]03[US]-16777216[RS]04[US]-65536[RS]05
[US]1[RS]06[US]False[RS]07[US]2[RS]08[US]Tr
ue[RS]09[US]300[RS][ETX]
[SOH]2502[STX]01[US]4[RS]02[US]Oproep[RS]
03[US]-16777216[RS]04[US]-32513[RS]05[US]
1[RS]06[US]False[RS]07[US]4[RS]08[US]True[R
S]09[US]20000[RS][ETX]
[SOH]2503[STX]01[US]3[RS]02[US]Toilet[RS]0
3[US]-16777216[RS]04[US]-256[RS]05[US]1[R
S]06[US]False[RS]07[US]3[RS]08[US]True[RS]0
9[US]18000[RS][ETX]
[SOH]2504[STX]01[US]129[RS]02[US]Techurg[
RS]03[US]0[RS]04[US]0[RS]05[US]0[RS]06[US]
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RS][ETX]
[SOH]2505[STX]01[US]46[RS]02[US]Medaillon
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False[RS]07[US]4[RS]08[US]True[RS]09[US]18
00[RS][ETX]
[SOH]2506[STX]01[US]46[RS]02[US]Medaillon
```

3.3.4. Close



Close icon, pressing this will log out the user. Application will still be open in the background opening it will show the login screen again.



3.4. Detail screen

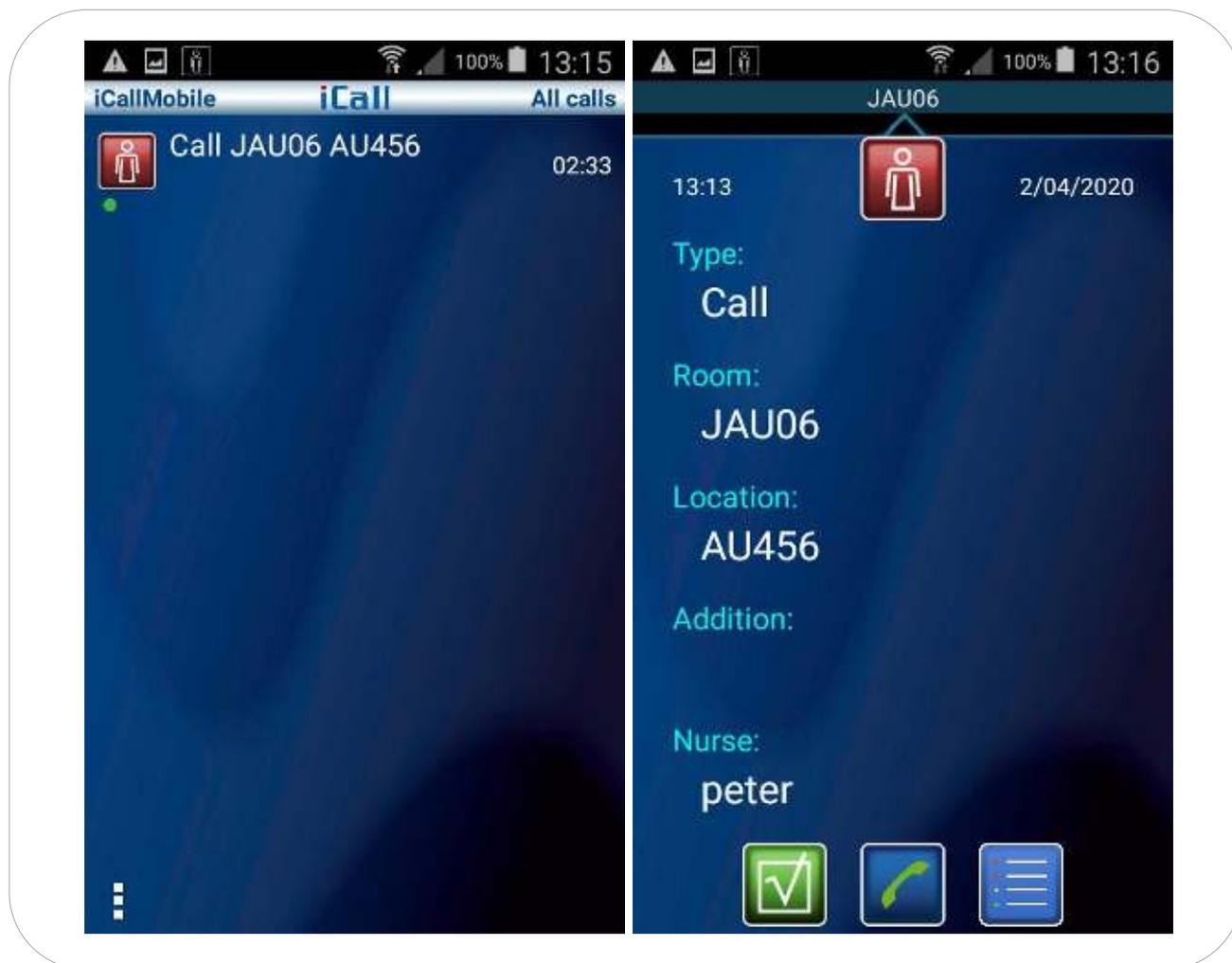
When you press a line on the Call overview screen, a more detailed window will open. Depending on what is programmed you will see one of the screens below. The icons at the bottom depend on what is configured in the Netrix. A telephone or camera icon will only appear if there is a link available at the location the call originated from.



3.4.1. Confirmation button



When pressing the confirm button, a user confirms this call and will take action to handle it. Confirmed calls can be seen in the overview list with an extra green dot. In the detailed screen you can see which user/nurse confirmed the call.



3.4.2. Return to call overview

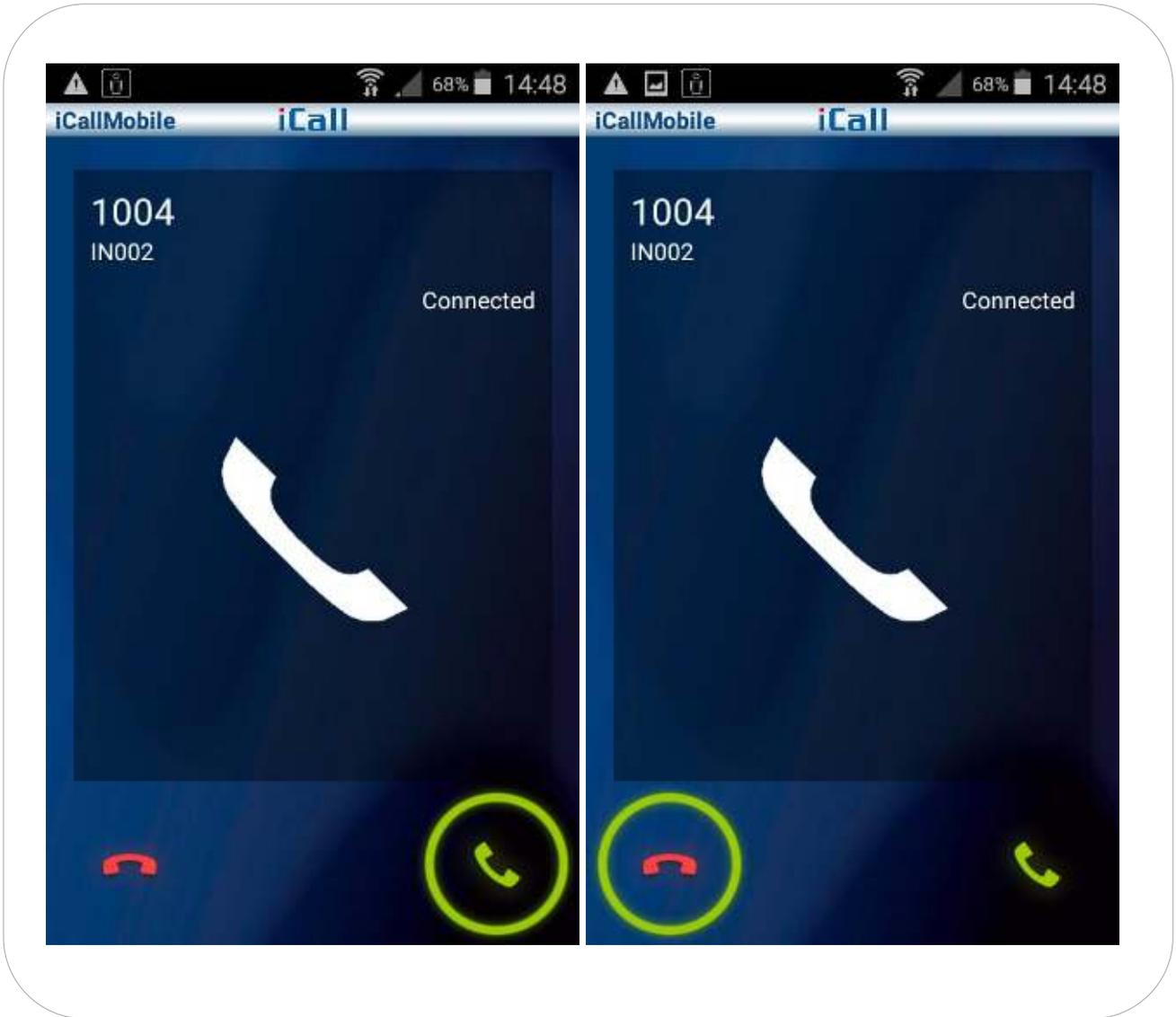


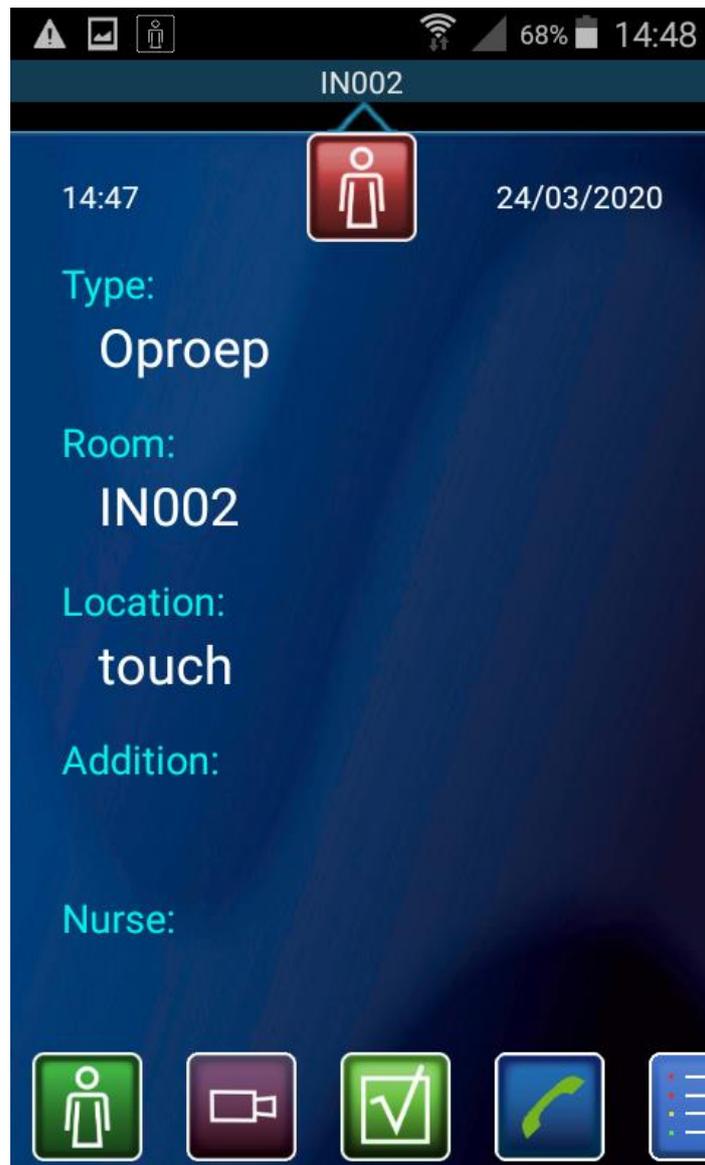
Pressing this button will return the screen back to the Call Overview screen.

3.4.3. Phone



When pressing the telephone icon, the application will automatically call up the callback number that was provided in the info received from the Netrix. Hanging up can be done by swiping the green circle over to the red telephone symbol.





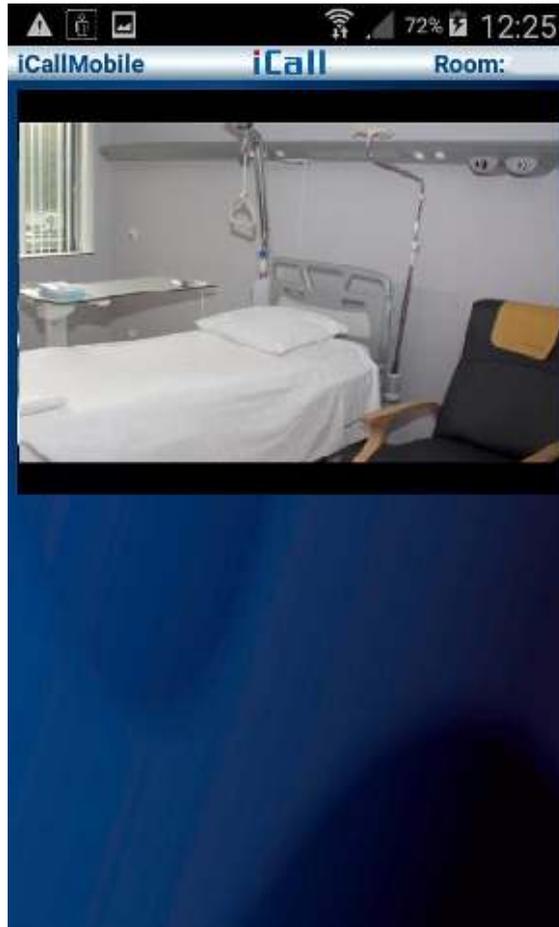
After a SIP call a new icon will be available in the detail screen, this is the cancel icon. With this icon you will be able to cancel a call remotely from the android device.

The Call will automatically be removed from the other android devices, the info will also be sent to the linked group in the Netrix.

3.4.4. Camera

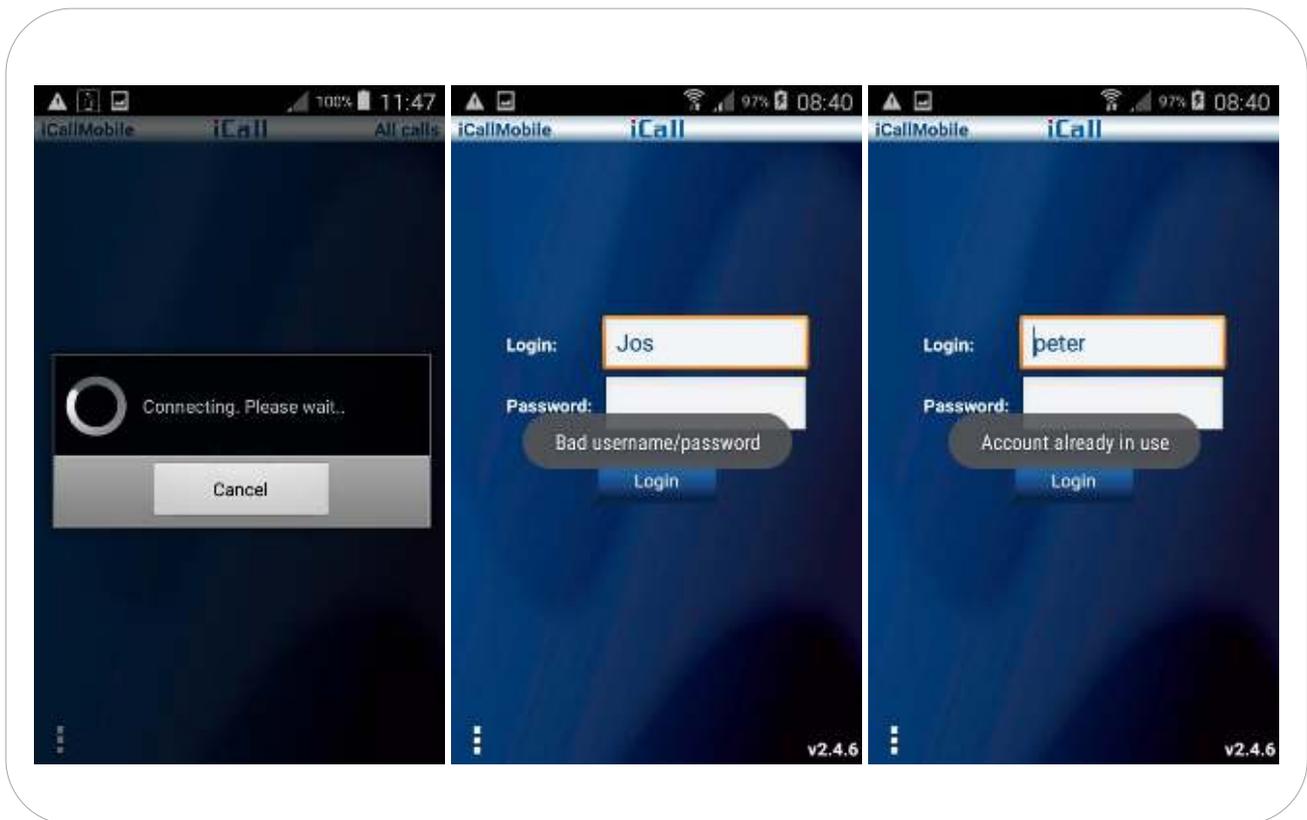


Pressing the Camera icon will open the stream that was provided in the info received from the Netrix. To return to the detail screen press back icon/key on your android device



4. Troubleshooting

Connecting Please wait....	Check if there is still a data connection available WiFi or Mobile data. If so check if the android device still has connection with the correct network connection. If above is OK problem could also be due to the Netrix, if this is no longer accessible, check the Netrix to proceed further.
Bad username/password	Check if you have used the correct credentials to log on.
Account already in use	The account is already in use on another android device. You will not be able to log in. Choose a different user or log out on the other android device.





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