



# emea

**iCall**  
**Netrix Smartphone**  
**license**



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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, ...

## Contact information

### IndigoCare Europe BV

Schoebroekstraat 48  
3583 Paal  
Belgium  
T +32 11 247090

[emea@indigocare.com](mailto:emea@indigocare.com)

[www.indigocare.com](http://www.indigocare.com)

# Revision history

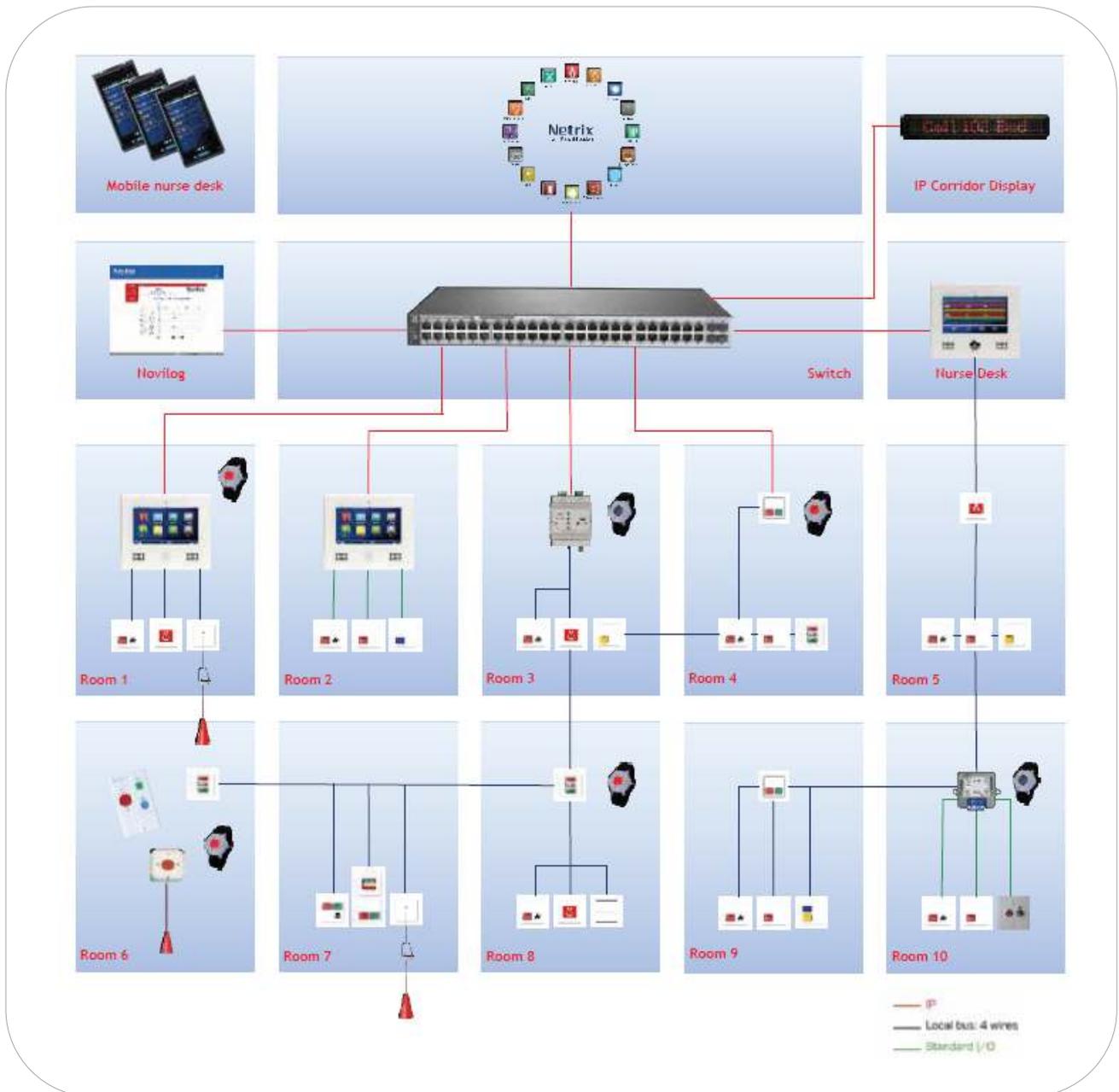
Date	Revision	Description
2016-01-29	1.0	First version
2020-04-30	1.1	New layout and updated info Netrix V3.0.14.0 and nurse desk application V2.4.6

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# 1. Introduction

The Netrix smartphone license is the heart of the Android nurse desk application. The configuration set here will determine what is visible and which functionalities will work. Setting up the nurse desk in the Netrix will require editing the smartphone license in the input/output window and creating participants in groups in order to communicate with the nurse desk running on the android device.



## 2. Configuration

### 2.1. Nurse Desk interface

To enable the Nurse Desk interface, go to Input-Output screen via the menu “Setup→Input-Output” and open the smartphone license to activate the interface.



**Port:** The TCP port the Netrix is listening to, default port 6001 is used

**SIP-server:** IP address of the SIP server (if available)

**SIP-port:** SIP port of the SIP server (if available)

**Default group:** if the application is not reachable, the data will be sent to this group

**Poll speed:** Polling time (seconds) between nurse desk application and Netrix

**Display Chrono:** Shows Chrono instead of start time call on mobile nurse desk

**ScreenDebug:** check this box if you need a debug screen for this interface

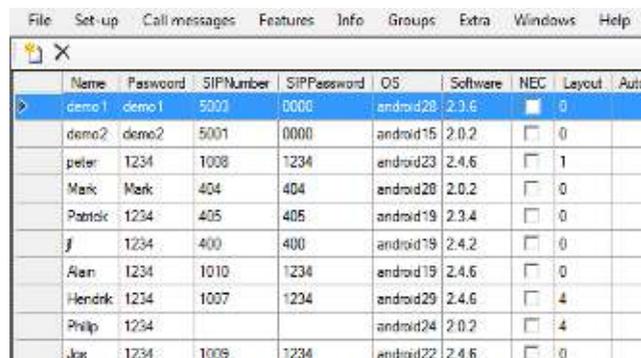
**FileDebug:** check this box to log the debug info

**ErrorLogging:** Check this box to log the errors

**Cancel Call after:** Group that is called up when pressing the cancel button on the nurse desk voice comm. Group application after a voice communication

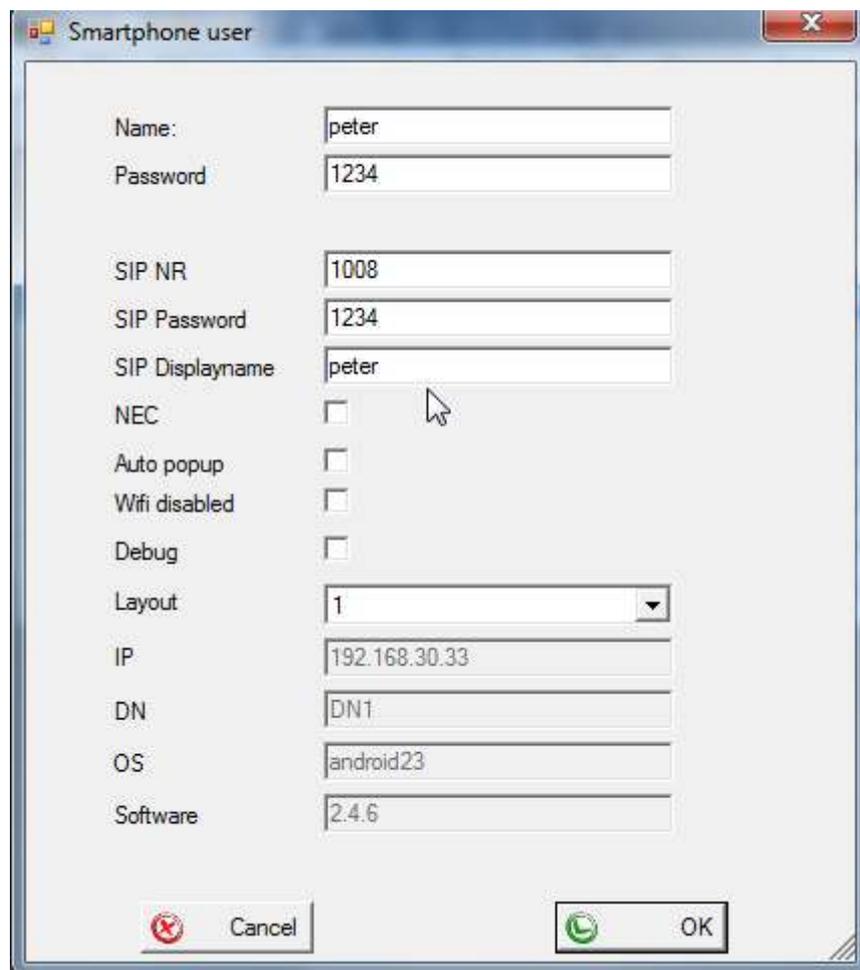
## 2.2. Users

Each user requires a dedicated license in the Netrix. Only one device can be logged in at the same time using a single user's login credentials. The user can swap devices without any restrictions (in case of loss, damage, battery low, etc.).



	Name	Password	SIPNumber	SIPPassword	OS	Software	NEC	Layout	Aut
>	demo1	demo1	5001	0000	android28	2.3.6	<input checked="" type="checkbox"/>	0	
	demo2	demo2	5001	0000	android15	2.0.2	<input type="checkbox"/>	0	
	peter	1234	1008	1234	android23	2.4.6	<input type="checkbox"/>	1	
	Mark	Mark	404	404	android28	2.0.2	<input type="checkbox"/>	0	
	Patrick	1234	405	405	android19	2.3.4	<input type="checkbox"/>	0	
	j	1234	400	400	android19	2.4.2	<input type="checkbox"/>	0	
	Alan	1234	1010	1234	android15	2.4.6	<input type="checkbox"/>	0	
	Hendrik	1234	1007	1234	android29	2.4.6	<input type="checkbox"/>	4	
	Philip	1234			android24	2.0.2	<input type="checkbox"/>	4	
	Joe	1234	1009	1234	android22	2.4.6	<input type="checkbox"/>	0	

If you create a user a lot of credentials can be filled in, not all are necessary all depends on the functionalities you have available.



Smartphone user

Name: peter

Password: 1234

SIP NR: 1008

SIP Password: 1234

SIP Displayname: peter

NEC:

Auto popup:

Wifi disabled:

Debug:

Layout: 1

IP: 192.168.30.33

DN: DN1

OS: android23

Software: 2.4.6

Cancel OK

Name: username of the user to log in  
 Password: password of the user to log in  
 SIP NR: Sip number to register the user on (if available)  
 SIP Password: Password needed to register the user (if available)  
 SIP Displayname: Sip name of the registered user (if available)  
 NEC: to call via DECT when smartphones are NEC android devices  
 Auto popup: if enabled Nurse desk application will automatically popup on the android device if there's a change of status. Only available for Android 4,5 and 6.  
 Wifi disabled: WIFI on android device will not switch automatically to other WIFI signal  
 Layout: Different layouts can be chosen to determine what is shown on the screen of the application.



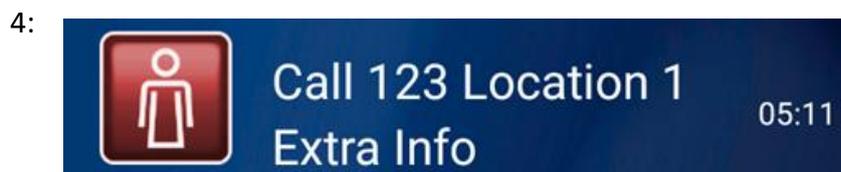
Line1: type of call/roomnumber/location  
 Line2: Additional info



Only additional info is shown



Same as first layout but time is put in upper right corner



Same as Layout 1 but bigger

5: Same as layout 1 and 4 but a lot larger specially made for large screen android devices (android TV)

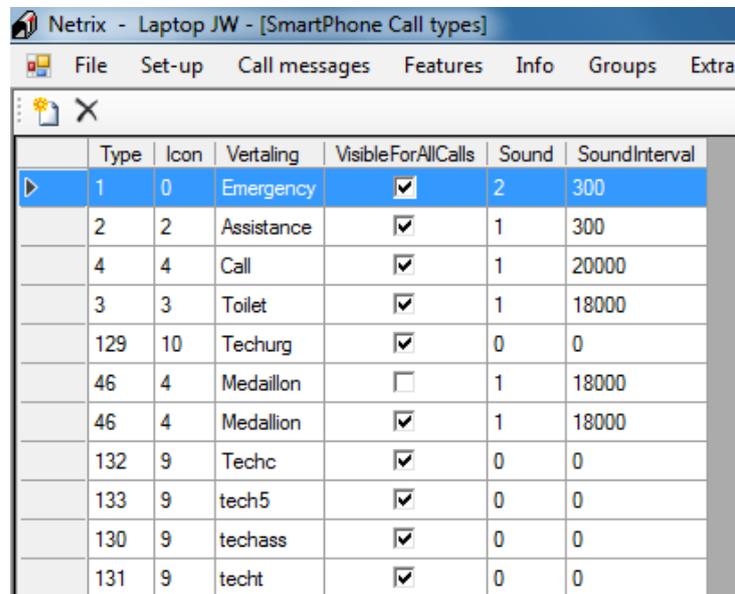
6: Same layout as 1 and 4 but a little bigger can be used for android desktop phones ( Grandstream)

Below cannot be filled in but will show automatically once the user has logged in

IP: IP address of android device user is logged on to  
 DN: DN setting that is set for the user  
 OS: Operating system of the android device  
 Software: Software version of the Nurse desk application

## 2.3. Call types

All needed Call types must be declared. Here you can add or delete the different call types.



Type	Icon	Vertaling	VisibleForAllCalls	Sound	SoundInterval
1	0	Emergency	<input checked="" type="checkbox"/>	2	300
2	2	Assistance	<input checked="" type="checkbox"/>	1	300
4	4	Call	<input checked="" type="checkbox"/>	1	20000
3	3	Toilet	<input checked="" type="checkbox"/>	1	18000
129	10	Techurg	<input checked="" type="checkbox"/>	0	0
46	4	Medaillon	<input type="checkbox"/>	1	18000
46	4	Medaillon	<input checked="" type="checkbox"/>	1	18000
132	9	Techc	<input checked="" type="checkbox"/>	0	0
133	9	tech5	<input checked="" type="checkbox"/>	0	0
130	9	techass	<input checked="" type="checkbox"/>	0	0
131	9	techt	<input checked="" type="checkbox"/>	0	0

When you add a new type of call you will see the field below.



SmartPhone Call type

Type No: 1

Translation: Emergency

Sound: [dropdown menu]

Visible:

Sound Interval: 300 (ms)

ICON0 ICON1 ICON2 ICON3

Cancel OK

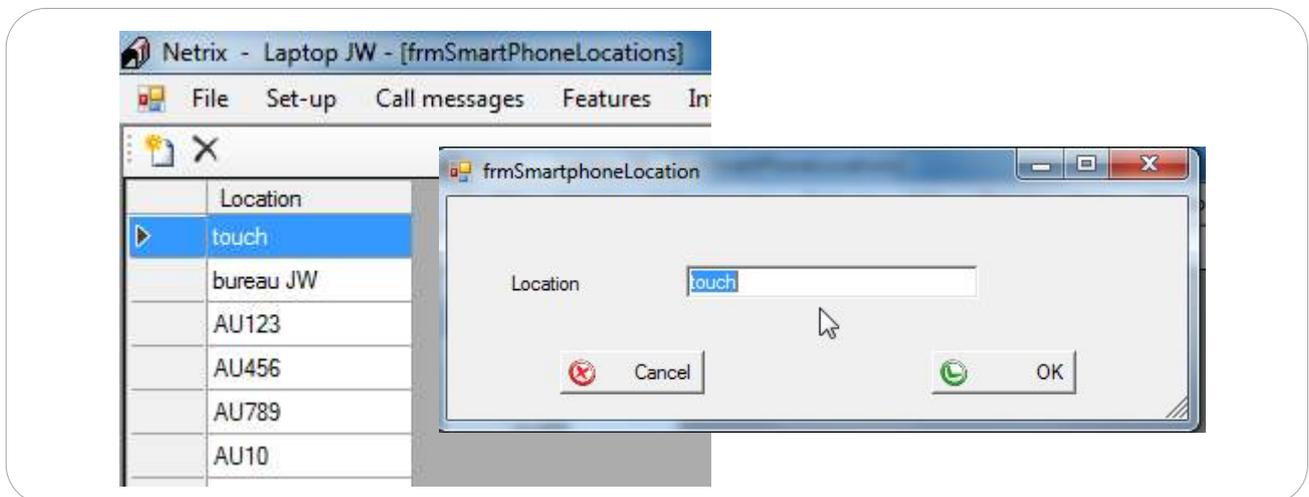
Typ Nr: the numeric code of the call type  
Translation: the text that will be visible on the screen of the nurse desk application  
Sound: different types of sound can be chosen here

- 0: No sound
- 1-7: Different types of beep tones
- 8: Telephone ringtone
- 9: Telephone connection tone
- 10: Doorbell tone

Visible: if checked this call type will be visible on the nurse desk application.  
Sound Interval: determines the interval between the sound that has been chosen  
Icons: for each type of call you can select a matching icon

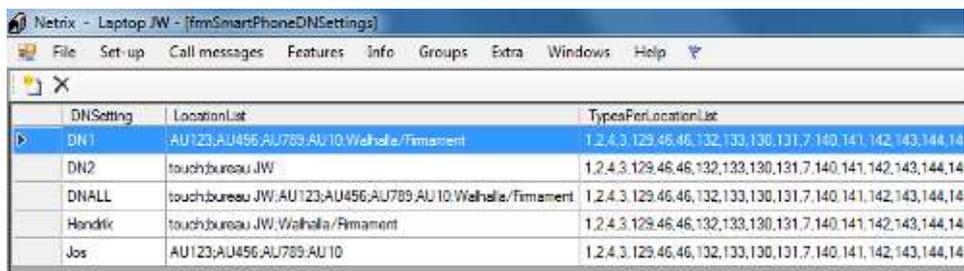
## 2.4. Locations

Here you can add or delete the locations, these can be used to filter out specific locations in the nurse desk application. In order to do this the locations available in the system have to be added in the smartphone license. These locations can then be selected in the DN settings.



## 2.5. DN settings

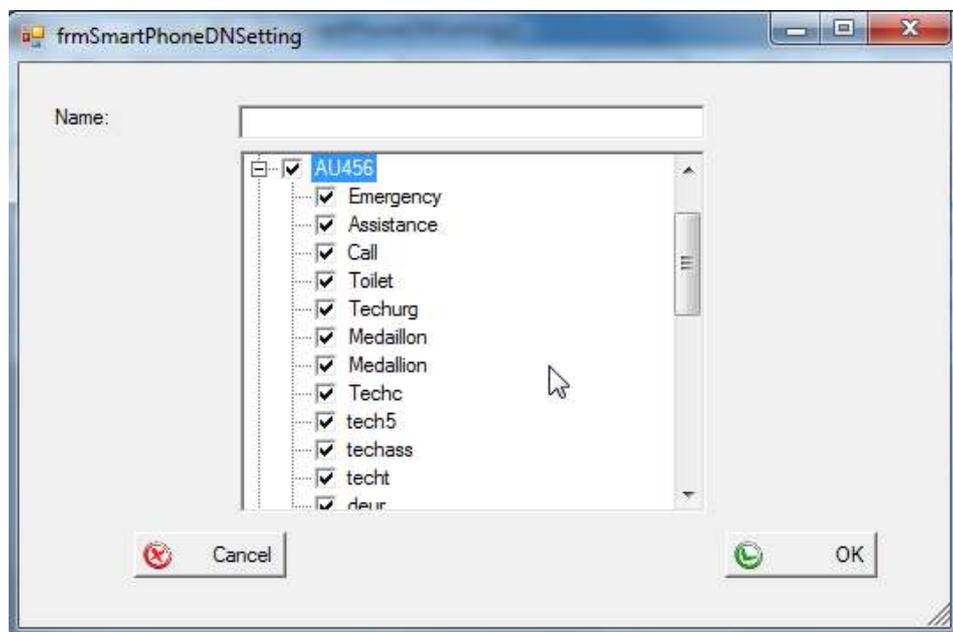
Day/Night settings are designed to achieve a switch of actively monitored locations on the android device. During the first login all open activities are displayed. In the application you can then select a DN setting created to only view the locations and types created in the Netrix.



The screenshot shows a window titled 'Netrix - Laptop JW - [frmSmartPhoneDNSettings]'. It displays a table with three columns: 'DNSetting', 'LocationList', and 'TypesPerLocationList'. The table contains several rows of data, with 'DN1' selected.

DNSetting	LocationList	TypesPerLocationList
DN1	AU123;AU456;AU789;AU10;Walshala/Firmament	1,2,4,3,129,46,46,132,133,130,131,7,140,141,142,143,144,14
DN2	touch;bureau JW	1,2,4,3,129,46,46,132,133,130,131,7,140,141,142,143,144,14
DNALL	touch;bureau JW;AU123;AU456;AU789;AU10;Walshala/Firmament	1,2,4,3,129,46,46,132,133,130,131,7,140,141,142,143,144,14
Hendrik	touch;bureau JW;Walshala/Firmament	1,2,4,3,129,46,46,132,133,130,131,7,140,141,142,143,144,14
Jos	AU123;AU456;AU789;AU10	1,2,4,3,129,46,46,132,133,130,131,7,140,141,142,143,144,14

When you create a DN setting and select the locations, you can choose per location which type of calls need to be visible for the location.



## 2.6. Log files

Pressing the log files button will download the debug log if this option was activated at the user. Normally this is disabled only for more logging this option is enabled



## 3. Programming

In this part the Participant CallList will be explained. 3 different types can be selected in the participant all with their specific functionality.

### 3.1. CallList Add/change/erase item

This is the participant to send the info out to the android device

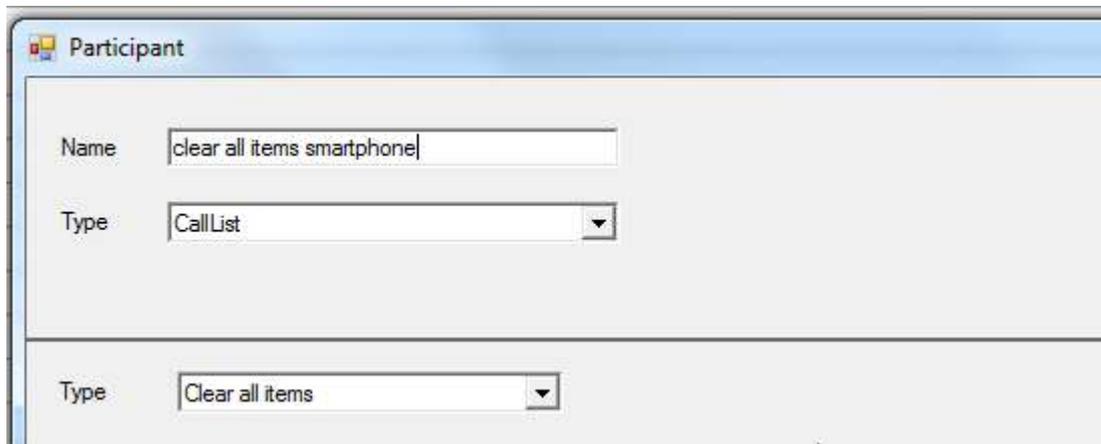
The screenshot shows a 'Participant' configuration window with the following fields:

- Name: Android device
- Type: CallList
- Type: Add/change/erase item
- Room NR: &[MSG5]
- Location: &[MSG6]
- Type NR: &[MSG7]
- Extra Info: &[MSG2]
- Callback: &[MSG8]
- Camera: rtsp://192.168.30.120/video2.sdp
- Nurse: &[MSG9]

- Room NR: Field should contain the room number (standard MSG5)
- Location: Contains the location of the room if a location was set (standard MSG6)
- Type NR: The type of call, but numeric (standard MSG7)
- Extra Info: Additional info (standard MSG2)
- Callback: SIP- Number that can be called back via the android device (standard MSG8)
- Camera: Rtp stream of camera in the room
- Nurse: Nurse ID ( standard MSG9)

## 3.2. CallList Clear all items

The Clear all items participant will clear all the types of calls that are available at that time from the screen of the android device.



The screenshot shows a window titled "Participant" with the following fields:

- Name:
- Type:  ▼

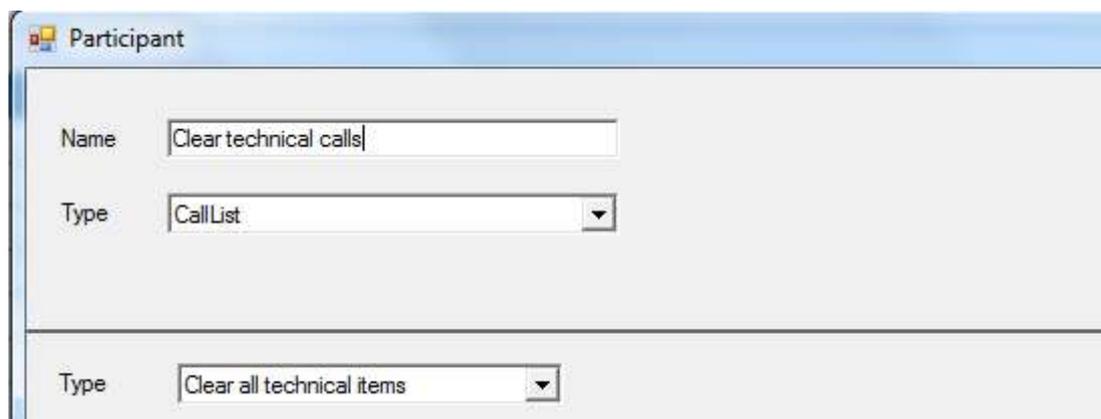
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Below the main form, there is a separate section with:

- Type:  ▼

## 3.3. CallList Clear all technical items

Clear all technical items will only clear the types of calls with numeric type 129-134 from the android devices.



The screenshot shows a window titled "Participant" with the following fields:

- Name:
- Type:  ▼

---

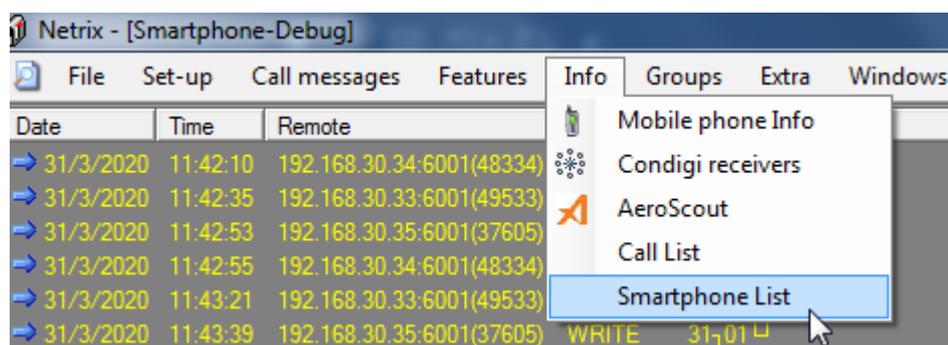
Below the main form, there is a separate section with:

- Type:  ▼

## 4. Extra info

### 4.1. Smartphone list

To open the Smartphone List go to Info and then select Smartphone List.

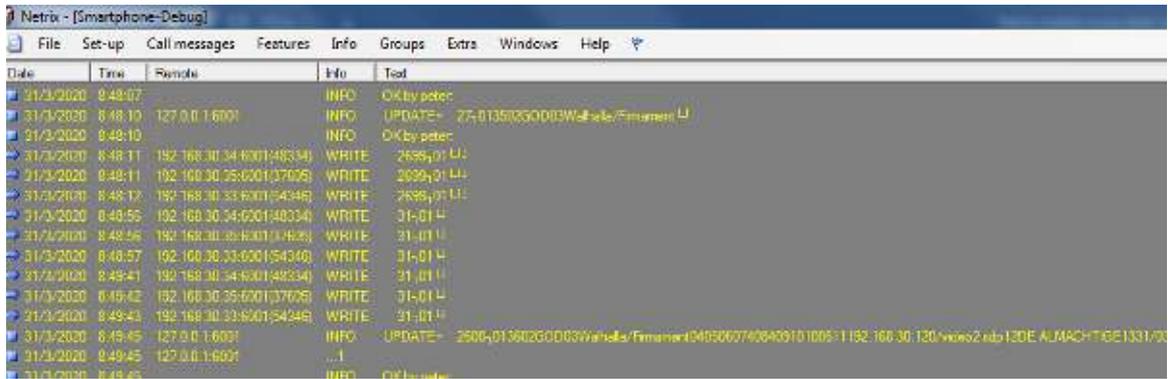


Here you will then see an overview of all the Android devices logged in. Extra info like IP addresses, last connection, last data received can be found here.

File	Set-up	Call messages	Features	Info	Groups	Extra	Windows	Help
	IP		USER		IMEI		Connectie	LastInput
	192.168.30.33:54346		peter		355622082656481		31/03/2020 8:45:57	31/03/2020 8:45
	192.168.30.35:37605		Alain		354473060763324		31/03/2020 8:46:04	31/03/2020 8:46
	192.168.30.34:48334		Jos		358634064563152		31/03/2020 8:46:10	31/03/2020 8:46

## 4.2. Debug window

If the Screendebug is enabled in the license you will see the debug window containing more info what is send out.



Date	Time	Remote	Info	Text
31/3/2020	8:48:07		INFO	OK by peter
31/3/2020	8:48:10	127.0.0.1:6001	INFO	UPDATE= 27-0135030D03Wahle/Firmenst
31/3/2020	8:48:10		INFO	OK by peter
31/3/2020	8:48:11	192.168.30.34:6001(48334)	WRITE	2698,01
31/3/2020	8:48:11	192.168.30.35:6001(37626)	WRITE	2099,01
31/3/2020	8:48:12	192.168.30.33:6001(54348)	WRITE	2698,01
31/3/2020	8:48:55	192.168.30.34:6001(48334)	WRITE	31-01
31/3/2020	8:48:56	192.168.30.35:6001(37626)	WRITE	31-01
31/3/2020	8:48:57	192.168.30.33:6001(54348)	WRITE	31-01
31/3/2020	8:49:41	192.168.30.34:6001(48334)	WRITE	31-01
31/3/2020	8:49:42	192.168.30.35:6001(37626)	WRITE	31-01
31/3/2020	8:49:43	192.168.30.33:6001(54348)	WRITE	31-01
31/3/2020	8:49:45	127.0.0.1:6001	INFO	UPDATE= 25004-013602G0D03Wahle/Firmenst04050607408409101005F1192.168.30.120/voic2.kio120E.ALMACHTIGE1331/30
31/3/2020	8:49:45	127.0.0.1:6001	...	...
31/3/2020	8:49:45		INFO	OK by peter

Example below when someone tries to log into an account that already in use.



31/3/2020	8:52:29	192.168.30.33:6001(37626)	WRITE	31-01
31/3/2020	8:52:31	192.168.30.33:6001	OPEN	Accept connection:192.168.30.33(51283) HandleAcceptedTCPClientSMARTPHONE3:
31/3/2020	8:52:31	192.168.30.33:6001(51283)	ERROR	Login failed. Account in use.
31/3/2020	8:52:31	192.168.30.33:6001(51283)	WRITE	21-1FALSE104
31/3/2020	8:52:32	192.168.30.33:6001(51283)	CLOSED	Connection closed:192.168.30.33

Example below if someone is trying to log on wit the wrong username or password.

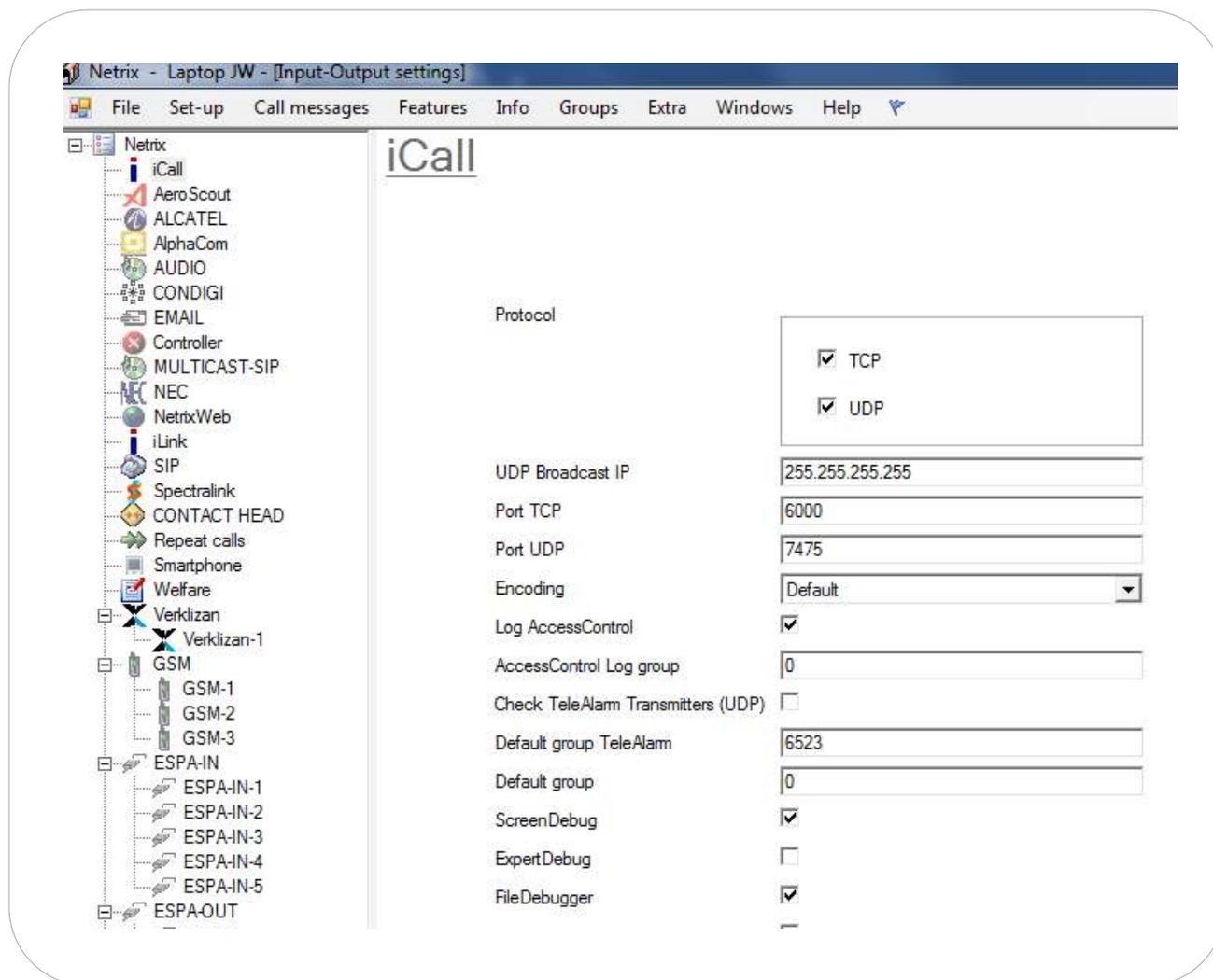


31/3/2020	8:53:13	192.168.30.33:6001	OPEN	Accept connection:192.168.30.33(48012) HandleAcceptedTCPClientSMARTPHONE3:
31/3/2020	8:53:13	192.168.30.33:6001(48012)	ERROR	Login failed. Wrong username/password.(Peter/1235)
31/3/2020	8:53:13	192.168.30.33:6001(48012)	WRITE	21-1FALSE101
31/3/2020	8:53:14	192.168.30.33:6001(56897)	CLOSED	Connection closed:192.168.30.33
31/3/2020	8:53:14	192.168.30.33:6001(48012)	CLOSED	Connection closed:192.168.30.33

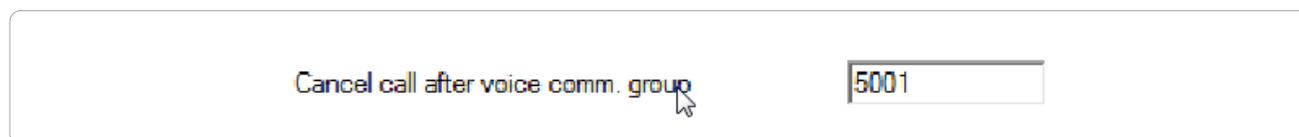
## 4.3. Cancelling call after voice communication

When pressing the cancel button after the voice communication, the cancellation is automatically send out to all android devices. But it still has to be send out to the iCall system were the call originated from.

In orde to do this first the iCall license has to be set properly. UDP needs to be enabled, broadcast IP ( standard 255.255.255.255) and udp port (standard 7475) have to be filled in correctly.



Next step is to create an “IP iCall room call” participant in the group that was configured in the smartphone license.



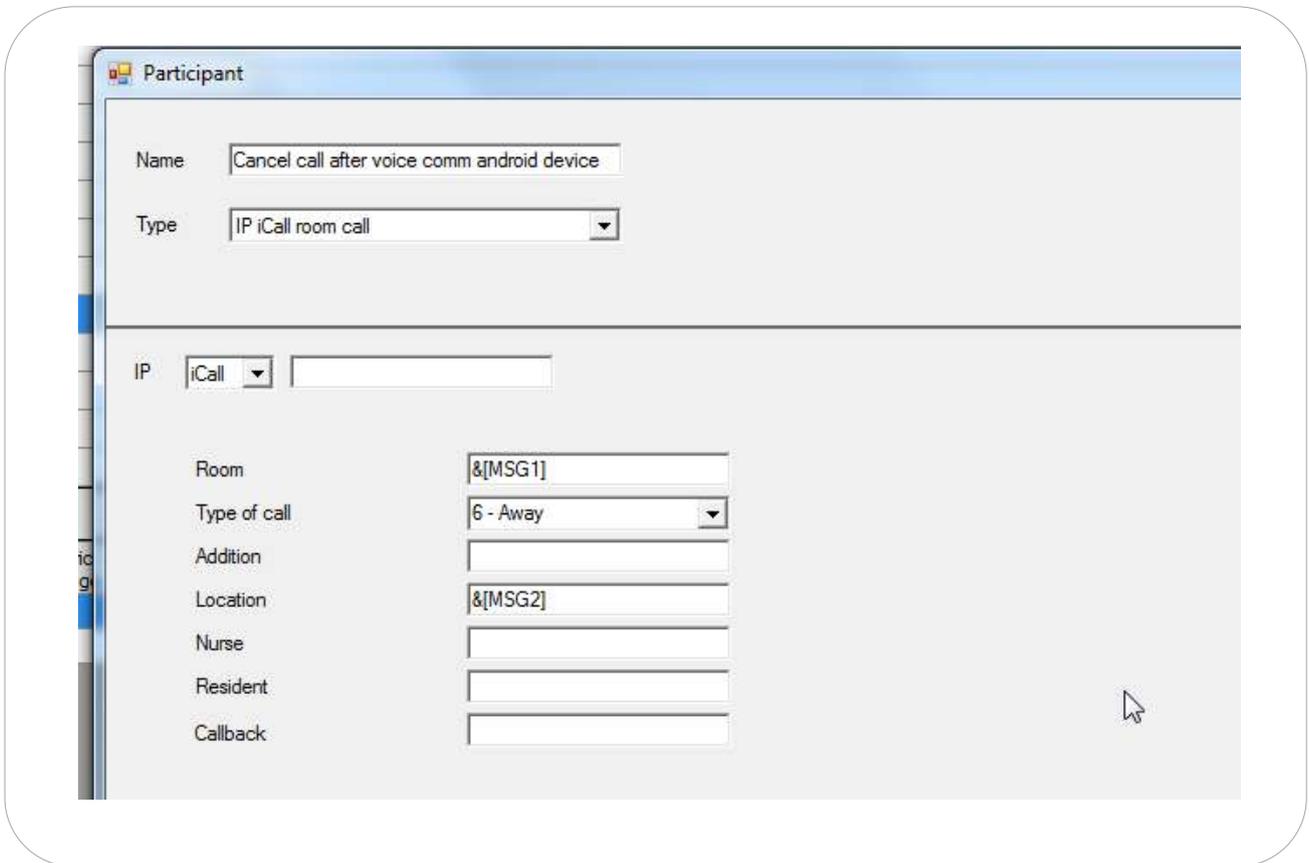
The participant needs to be configured with the following info.

Select the iCall license at the IP part

Room -> &[amp;MSG1]

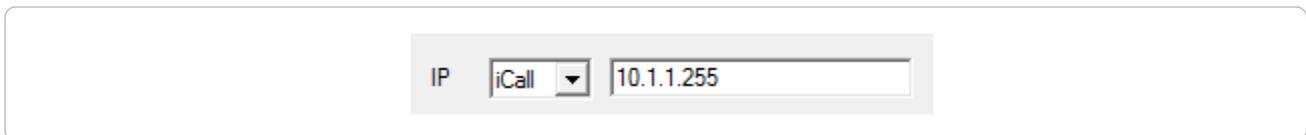
Type of call -> 6 – Away

Location -> &[amp;MSG2]



This info will then be broadcasted out to the iCall system and clear the call message.

**TIP:** if you use multiple network ports on the Netrix device, you need to specify the broadcast range. If for example the iCall system is in the 10.1.1.\* (subnet 255.255.255.0) range the broadcast address is 10.1.1.255. This then needs to be filled in the participant after the selection of the IP license.





## Contact us for more info

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### **IndigoCare Europe BV**

Schoebroekstraat 48  
3583 Paal  
Belgium  
T +32 11 247090

[emea@indigocare.com](mailto:emea@indigocare.com)

[www.indigocare.com](http://www.indigocare.com)

