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TOA N-SP80 SIP Intercom Softphone Application User Manual

SIP Intercom Softphone Application
N-SP80
USER MANUAL

TOA Canada Corporation

Contents

Product Overview

1.1. Product Description

TOA N-SP80 is a smart app, based on SIP standard. It can be directly connected to anInternet Telephony Service Provider or to an IP PBX. Often be used with TOA intercom series.

Note: TOA N-SP80 can support the Android platform. For the Android APK contact TOA Canada **technicalsupport@toacanada.com**

Functions

2.1. Account
2.1.1. Register an Account

When users open N-SP80 app for the first time, they need fill account information to register a SIP account. Press "More" to set detailed information. Then click Submit to save the configuration and enter the app.

User Name: The user name of the registered SIP account.

Password: The password of the registered SIP account.

Server URL: The IP address of the SIP server.

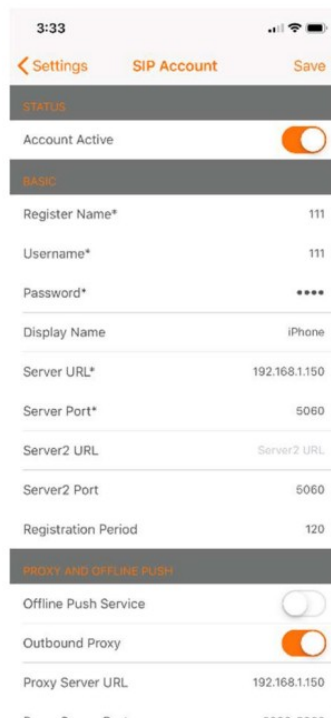**Server Port:** The server port of the SIP server.

2.2. Make a Call
2.2.1. Calling from Keypad

On the Dialer page, press the right-down ⠿ icon to expand the keypad, insert the IP or SIP number, and then

press 📞 button to call.

2.2.2. Calling from Call log
In the Dialer page, there are three types of call log (All log, missed log and outgoing log). Users can press the contact on the call log that they want to call.

2.2.3. Calling from Contact

Go to the Contacts page and choose a contact you want to call. Press the 📞 button to make a call out.
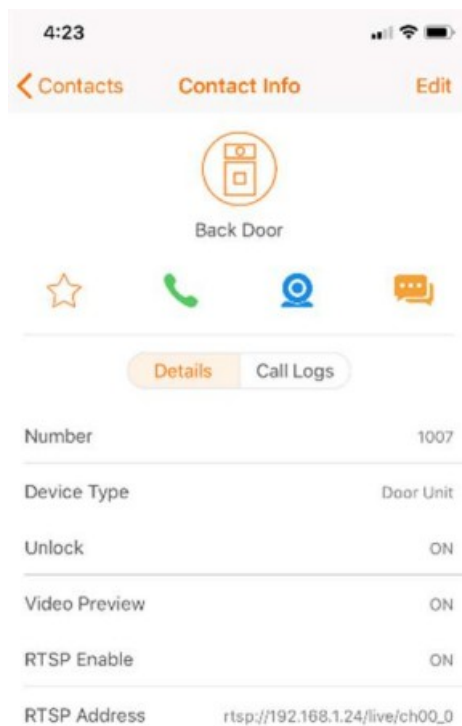
2.3. Receive a Call

2.3.1. Receive an Incoming Call

Tap Accept to pick up the incoming call.

Tap Exit to reject the incoming call.

*N-SP80 supports to preview the caller when it receives an incoming call from door phone.

 : Tap it to mute the microphone.

 : Tap it to switch to speakerphone.

 : Tap it to go full screen.
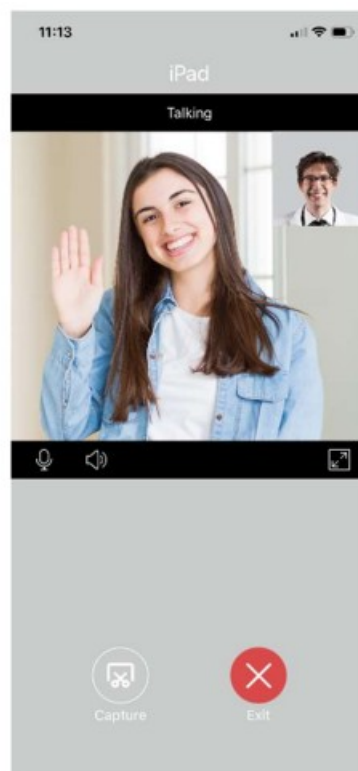
2.3.2. During the Session

Once the call is answered, you can take a screenshot for the caller by pressing Capture button.

Tap Unlock to open the corresponding door (if the call is from outdoor unit).

Tap Exit to hang up the current call.
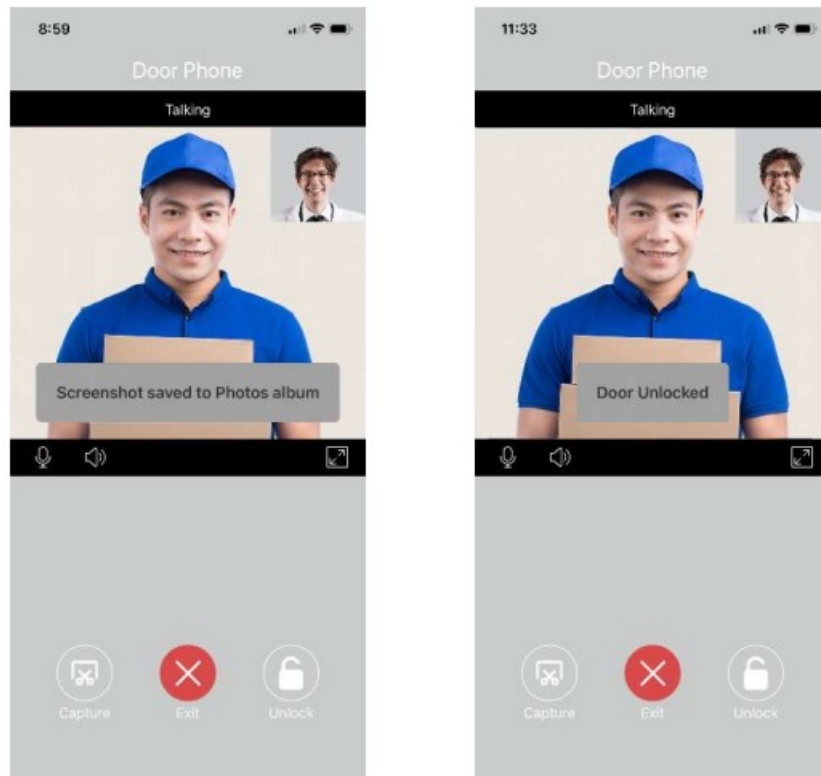
2.4. Call Log

On the Dialer page, Users are able to view all / missed / outgoing calls.

2.4.1. Edit the Call Log

On the Dialer page, press Edit button to enter the edit interface.

1) If you want to delete one call record:

- Select the call log you want to delete;
- Press Delete;
- Press OK to confirm the deletion.

2) If you want to delete all call logs:

- Press Select All;
- Press Delete;
- Press OK to confirm the deletion.
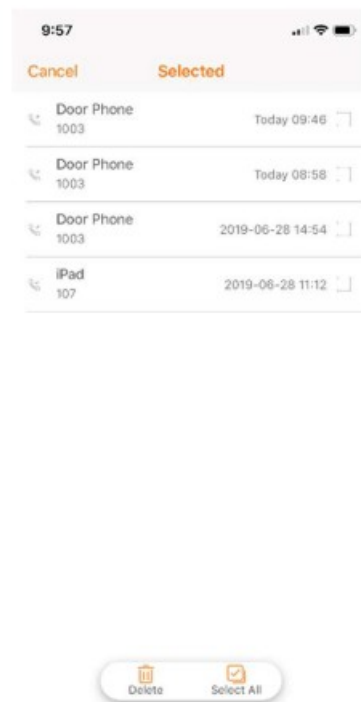
2.5. Contacts

Press Contacts page to enter the contacts interface.

- Click ☰ or 🔠 icon to change the layout of the Contacts interface. There are two layouts for users to choose.

- Click ☆ icon to mark your favorite contact.
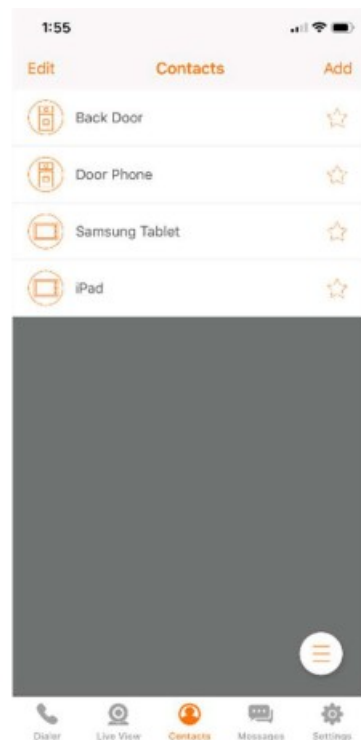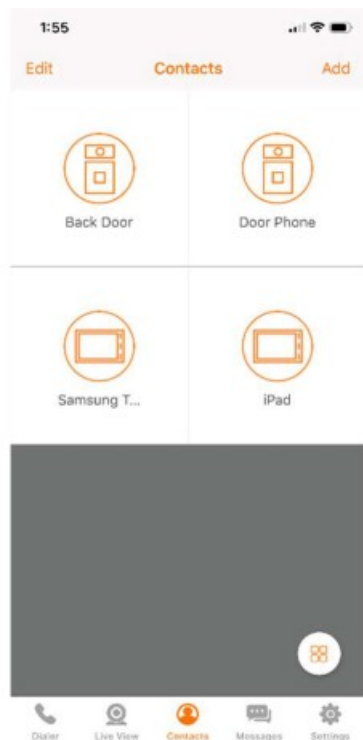
2.5.1. Add a New Contact

On the Contacts page, click Add to add a new contact.

Name: The name of the contact's device.

SIP Number: The SIP number or IP address of the devices.

: Tap to change the contacts' profile picture. There are four default pictures for users to choose: male,

female, door unit and indoor monitor. Users can also choose local pictures or take a photo.
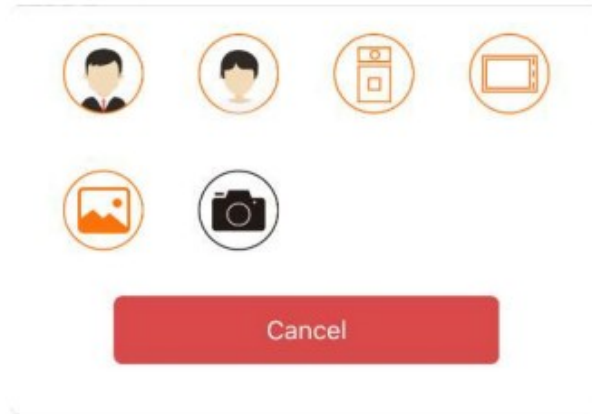
Device Type: Choose the corresponding type according to the contact's device. There are five types of users.

Video Preview: If enabled, users can preview before the call.

RTSP Enabled: If enabled, users can get the video preview and monitor the video from door unit and stair phone.

*Note: The main difference between the video preview and RTSP preview is that their video stream is different.

The video preview get the video from the SIP video stream, but the RTSP preview get the video from the RTSP stream. The video preview can be used when the other side cannot support RTSP.

RTSP Address: Type in the RTSP URL of door phone using the following format: **rtsp://Door Phone's IP/live/ch00_0**.

Unlock: If enabled, there will be an Unlock icon in the talking interface when the device type is door unit or stair phone.

Relay Name: To set a name for the relay.

Unlock Method: It supports DTMF and HTTP commands.

When choose the HTTP, then the N-SP80 app can unlock the devices in the monitor interface, either.

*Note: The HTTP control feature should be enabled on the devices first. For example, the configuration path of TOA door phone is Web – Intercom – Relay – Open Relay via HTTP. The unlock HTTP command format is: http://IP_address/fcgi/doaction=OpenDoor&UserName=&Password=&DoorNum=1.

DTMF Code: To setup corresponding DTMF code of DTMF code type.

More Relay: To add a new option to control the relay. The N-SP80 app can support up to 3 relays.

2.5.2. Modify a Contact

- Select the contact need to modify in the contact list.

- Click Edit.

- Enter into contact edit page, edit the contact information.

2.5.3. Delete a Contact

On the Contacts page, press Edit to enter the edit interface.

1) If you want to delete one contact:

- Select the contact you want to delete;
- Press Delete;
- Press OK to confirm the deletion.

2) If you want to delete all contacts:

- Press Select All;
- Press Delete.
- Press OK to confirm the deletion.

2.6. Live View

2.6.1. Add a Door Station

On the Live View page, click Add to add a new door station.

Users are able to select door station that already defined on the Contacts page, or by adding a new device.

On the Live View page, users can view the selected door stations with a video preview for each one.
Press on one of the door stations to go into a full screen mode.
Tap Call to call the door station.
Tap Exit to exit the full scree mode.
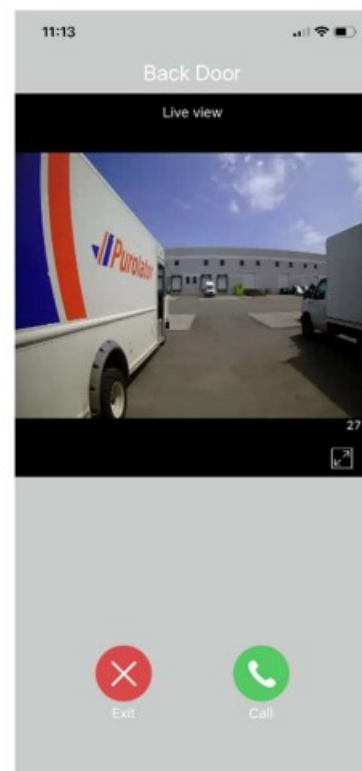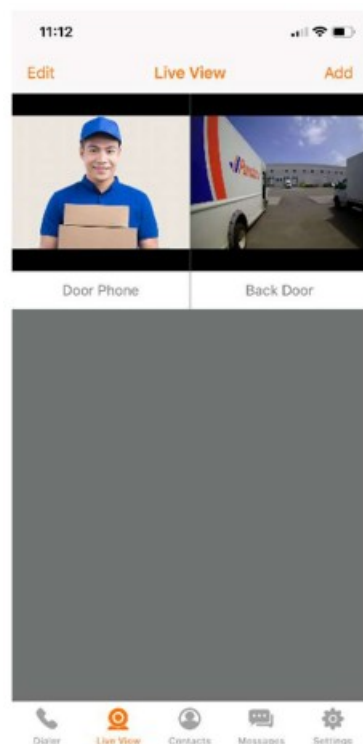
To add a door station not present on the Contacts page, press "+New Device" from the menu list to add a new device.
Device Name: The name of the new device.
Number: The SIP number or IP address of the devices.
RTSP URL: The RTSP URL of door phone by using the following format: **rtsp://Door Phone's IP/live/ch00_0**.

2.6.2. Delete a Door Station
To delete a door station, press "Edit" and tap the "x" mark on the top right of the required door station(s). When finished, press "Done".
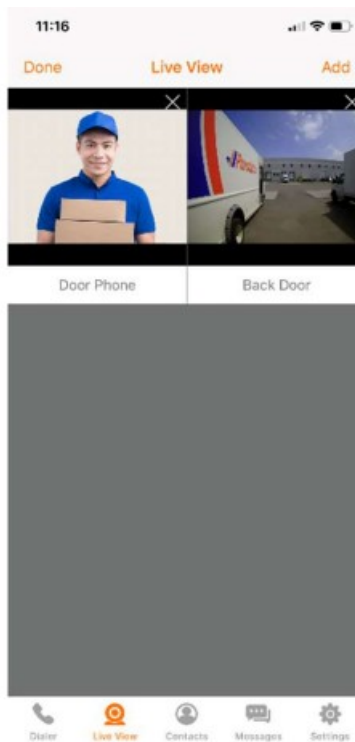
2.6.3. Monitor a Door Station from Contacts Interface
Monitor feature enables users to view the real-time video from IP cameras or door phones anytime.

Click in the Contacts page.

2.7. Messages
2.7.1. Create a Message
2.7.1.1. Create a Message on the Contacts Interface

- Choose a contact and enter its contact info interface.

- Click icon to enter the Messages interface.

- Type your message.

- Click icon to send the message out.

2.7.1.2. Create a Message on the Messages Interface

- On the Messages page, click Add.

- Enter the destination number manually or select the device quickly from the below list.

- Type your message.

- Click icon to send the message out.

2.7.2. Delete a Message
On the Messages page, press Edit to enter the edit interface.
1) If you want to delete one massage:

- Select the message you want to delete;

- Press Delete;

- Press OK to confirm the deletion.

2) If you want to delete all messages:

- Press Select All;

- Press Delete;

- Press OK to confirm the deletion.

Settings

3.1. SIP Account Settings
After login, if users need change SIP account information, go to Settings – SIP ACCOUNT.

3.1.1. Status
Enable it to active the SIP account.
3.1.2. Basic
Register Name: The registered name of the SIP account.
User Name: The user name of the registered SIP account.
Password: The Password of the registered SIP account.
Display Name: The display name of the registered SIP account.
Server URL: The IP address of the SIP Server.
Server Port: The Server Port of the SIP Server.
Server2 URL: The IP address of the backup SIP Server.
Server2 Port: The Server Port of the backup SIP Server.
Registration Period: The period time to register the SIP Server.
3.1.3. Proxy and Offline Push
Offline Push Service: Enable it then the mobile phone will still receive the incoming call even the N-SP80 app run in the background or will be killed.
Outbound Proxy: Enable it to configure the proxy server to receive all initiating request messages and route them to the designated SIP server.
Proxy Server URL: To configure the URL of the proxy server.
Proxy Server Port: To configure the proxy server port.
3.1.4. Codec Settings
Audio Codec: To configure the codecs by pressing the corresponding buttons. N-SP80 app supports 3 types audio codec: PCMU, PCMA, G729, and G722.
Video Codec: To configure the codecs by pressing the corresponding buttons. N-SP80 app supports H.264.

➢ Codec Resolution: To adjust the resolutions for different video codecs.

➢ Codec Bitrate: To adjust the bitrate for different video codecs.

➢ Codec Payload: To adjust the codec payload for video codec.
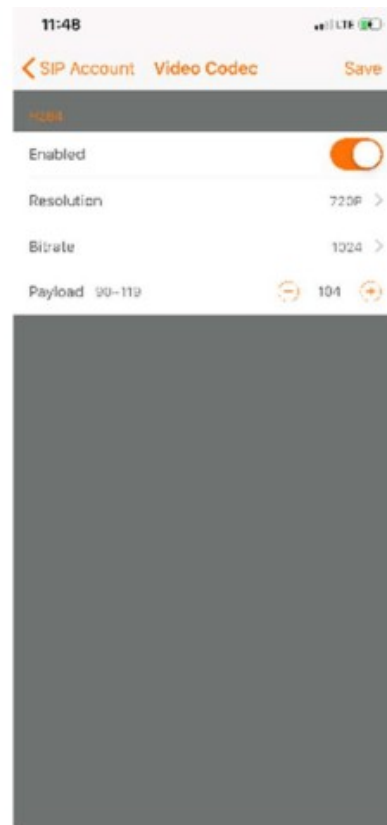
3.2. Preferences Settings

3.2.1. Audio (Android only)

Users can set audio parameters.

3.2.1.1. Echo Cancellation

Echo Cancellation: Enable to optimize audio and to cancel echo.

CNG: Only work when VAD is enabled, enable CNG function to judge whether still in a session while other side have no response.

VAD: Enable to detect and cancel long time Silent.

3.2.1.2. Auto Gain Control

AUTO GAIN CONTROL: AGC enable to set AGC Target volume, including receiving side and sending the maximum volume can set up to 20dB.

3.2.2. Video (Android only)

Users can set video parameters.

3.2.2.1. General Settings

IP Direct Video Preview: Enable to display preview pictures when an IP call comes.

IP Direct Video Resolution: Choose the resolution of preview pictures when an IP call come, totally 6 options, and the maximum is 720P, 4CIF by default.

3.2.2.2. RTSP

Catching 100-5000ms: Increase delay time to make RTSP stream more smoothly when network environment is not stable enough. For example, set the parameters to 5000ms, the stream will delay 5 seconds.

3.2.2.3. Media Feedback

NACK (Negative Acknowledgement): If system detect packet loss at the receiving side, NACK function will help to notify to resend the packet.

Tmmbr (Temporal Max Media Bitrate Request): Enable to help the sender to control Bitrate.

3.2.2.4. Other Settings

Color Enhancement: Enable to increase display brightness.

Image Quality: Three options: Low, Middle, and High. The higher you choose, the clearer the video during a video call.

Show frame rate and bit rate: Enable it to show current frame rate and bit rate on the left-upper corner.

3.2.3. Network

Users can set the transport type and NAT in the network interface.

3.2.3.1. Transport Type

Transport Type: There are two types for users to choose: UDP and TCP.

- **UDP:** UDP is an unreliable but very efficient transport layer protocol.

- **TCP:** Reliable but less-efficient transport layer protocol.

3.2.3.2. NAT
UDP Keep Alive: Enable to send UDP keep alive message periodically to router to keep NAT port alive.
RPort (Remote Port): Enable to add remote port in to outgoing SIP message for designated account.

3.2.4. Advanced (Android only)
Auto Rotation: When users enable auto rotation function on their phones/tablets, then this will allow all the sub-pages to turn to landscape mode.

3.2.5. Log
Log function provides a professional method for administrator to debug.

3.2.5.1. Log Level
LOG LEVEL: To adjust the system log level, which ranges from 0 to 7 and it is 3 by default. The higher level means the more specific system log is saved to a temporary file.

3.2.5.2. Sync Settings with the Cloud
To sync log to the server.
Log Server: Fill the IP address of the PC.
Log Port: The default value is 106.
*Note: Phone and Computer should connect to same LAN, then open log tool on PC (for example: Wireshark).

3.2.5.3. Export Log (Android only)
Export log to your phone.
Log file storage location: Press Browser to choose the storage location, then press Export Log to export it to that location.

3.2.6. About
This interface shows TOA logo and current version information.
Call us: Click it to call our Canadian Office 1-800-263-7639.
Contact us: Click it to visit our website **www.toacanada.com**

Documents / Resources

	TOA N-SP80 SIP Intercom Softphone Application [pdf] User Manual N-SP80, N-SP80 SIP Intercom Softphone Application, SIP Intercom Softphone Application, Intercom Softphone Application, Softphone Application, Application