

Grandstream Networks, Inc.

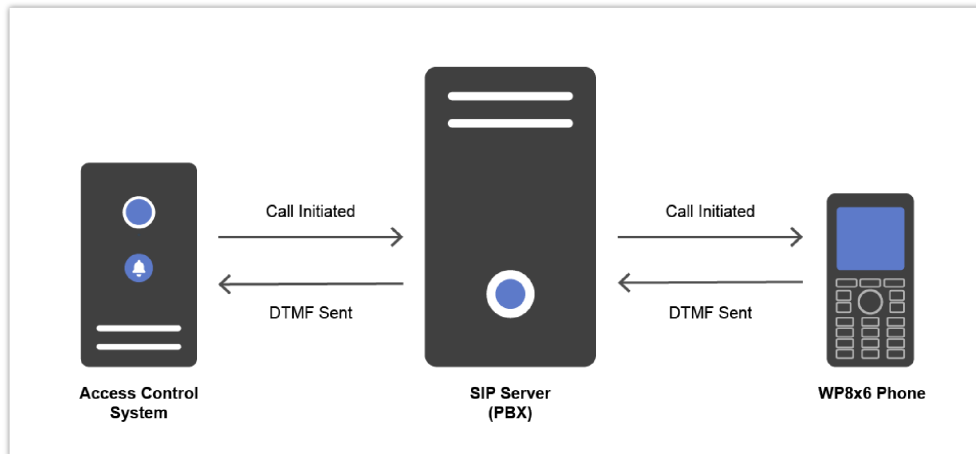
**WP8x6 – Access Control Systems
Configuration Guide**



INTRODUCTION

Grandstream WP8x6 series Wi-Fi phones can be integrated with third-party access control systems (e.g., Akuvox, 2N) to support remote door opening via DTMF tones.

This guide outlines how to configure the WP8x6 phone to work with DTMF enabled access control devices, including basic configuration steps and examples for known brands.



WP8X6 CONFIGURATION FOR ACCESS CONTROL

On the WP8x6 phone's Web UI, navigate to **External Service** → **Door System** then click "Add" to configure a new access control system.

1. Set **Door System Type** to "Others".
2. Choose the local SIP account that will be associated with this access control system.
3. Enter the number to call the access panel under **Access Number**.
4. Set the numeric code to be sent as DTMF for door unlocking in the **Access Password** field.

Door System

Add Delete

☐ Order Access Ident

Door System Type Others

Account Account 1

Access Number 1000

Related Display Name1

Access Password1

Related Display Name2

Access Password2

Ringtone Doorbell

Cancel OK

ACCESS CONTROL SYSTEM EXAMPLES

This section provides configuration examples using known third-party access control systems. These examples demonstrate how to set up SIP calling and DTMF-based door unlocking with the WP8x6 phone.

Akuvox E12S Configuration

The following steps show how to configure the Akuvox E12S to call the WP8x6 and accept DTMF input for door unlocking.

1. Press and hold the Call Button on the E12S panel to retrieve the IP address, which will be announced audibly.
2. Access the E12S Web UI by entering the announced IP address into a web browser on the same network.
3. Go to the Akuvox Web UI and navigate to **Account** → **Basic** to configure the access control panel to register with the same SIP server as the WP8x6 phone.

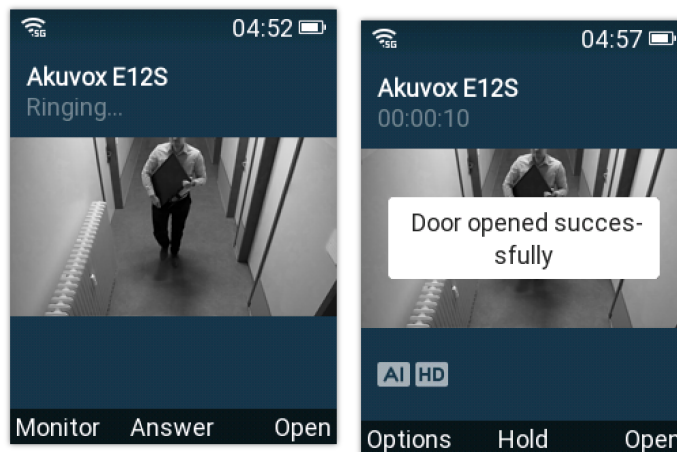
The screenshot shows the 'Basic' configuration page for the 'SIP Account'. The left sidebar contains a menu with 'Basic' highlighted. The main content area is divided into sections: 'SIP Account', 'Preferred SIP Server', 'Alternate SIP Server', 'Outbound Proxy Server', and 'Transport Type'. The 'SIP Account' section is highlighted with a red box and contains the following fields: Status (Registered), Account (Account 1), Account Enabled (checked), Display Label, Display Name, Register Name (1037), User Name (1037), and Password (*****). The 'Preferred SIP Server' section has fields for Server IP (192.168.131.7), Port (5060), and Registration Period (1800). The 'Alternate SIP Server' section has similar fields. The 'Outbound Proxy Server' section has fields for Outbound Enabled, Preferred Server IP, Port, and Alternate Server IP. The 'Transport Type' section has a field for Type (UDP). On the right side, there is a 'Help' section with a 'Note' about input box lengths, a 'Warning' section, and a 'Field Description' section. At the bottom right, there is a 'Submit Shortcut' section with 'Submit' and 'Cancel' buttons.

4. Go to the **Intercom** → **Basic** section and configure the control panel to dial the SIP extension or number assigned to the WP8x6.

The screenshot shows the 'Basic' configuration page for the 'Manager Dial' settings. The left sidebar contains a menu with 'Basic' highlighted. The main content area is divided into sections: 'Manager Dial', 'Group Call Number (Local)', and 'Direct IP'. The 'Manager Dial' section has fields for Call Type (Group Call), Call Timeout (Sec) (60), and a note: 'If the local group is not blank, then only the local numbers will be called.' The 'Group Call Number (Local)' section has a red box around the first input field, which contains the number '3668'. The 'Direct IP' section has fields for Enabled (checked), Port (5060), Video Resolution (4CIF), Video Bitrate (Kb/Sec) (2048), and Video Payload (104). On the right side, there is a 'Help' section with a 'Note' about input box lengths, a 'Warning' section, and a 'Field Description' section. At the bottom right, there is a 'Submit Shortcut' section with 'Submit' and 'Cancel' buttons.

5. Navigate to the **Access Control** → **Relay** page to set the DTMF transmission method and password:
 - Select the appropriate DTMF length.
 - Enter the DTMF password that will be matched on the WP8x6 phone for door access.

6. Save the changes, then test by pressing the call button to verify the call reaches the WP8x6 and triggers door unlocking after DTMF input.



2N Helios IP Solo Configuration

This section outlines how to configure the 2N Helios IP Solo access control panel to call the WP8x6 phone and unlock the door using DTMF input.

1. Press and hold the Reset button on the back of the panel until both red and green LEDs light up (around 15–35 seconds) then release. An audio prompt will play, followed by the device's IP address.
2. Log in to the 2N Web UI and navigate to **Services** → **Phone**. Enter the SIP server details to register the device to the same server as the WP8x6 phone.

2N IP Solo CZ | EN | DE | FR | IT | ES | RU Log out

Services

SIP 1 SIP 2 Calls Audio Video Local Calls Calling to ACS

☒ SIP Account Enable

Device Identity

Display Name 2N IP Solo

Phone Number (ID) 65445

Domain 192.168.125.254

Test Call

Authentication

Use Authentication ID ☒

Authentication ID 65445

Password *****

SIP Proxy

Proxy Address 192.168.125.254

Proxy Port Default

Backup Proxy Address

Backup Proxy Port Default

SIP Registrar

Registration Enabled ☒

Registrar Address 192.168.125.254

Registrar Port Default

Backup Registrar Address

Phone

Access Control

Streaming

E-Mail

Automation

HTTP API

User Sounds

Web Server

Audio Test

SNMP

3. Go to **Directory** → **Users** and click "Add" to create a user entry with the number assigned to the WP8x6 phone.

2N IP Solo CZ | EN | DE | FR | IT | ES | RU Log out

Directory

Users Time Profiles Holidays

Search

Name	E-Mail	Accesses
test		
wp8		
WP826		
WP8x6		

15 1 - 4 of 4

2N IP Solo CZ | EN | DE | FR | IT | ES | RU Log out

Directory

Users Time Profiles Holidays

Back to List

User Basic Information

Name WP8x6

E-Mail

Virtual Number

User Phone Numbers

Number 1

Phone Number 36842

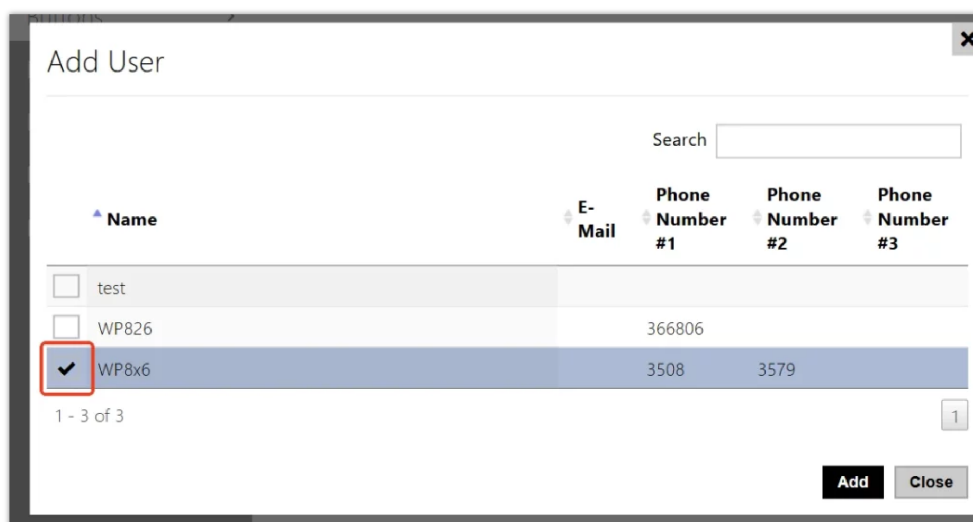
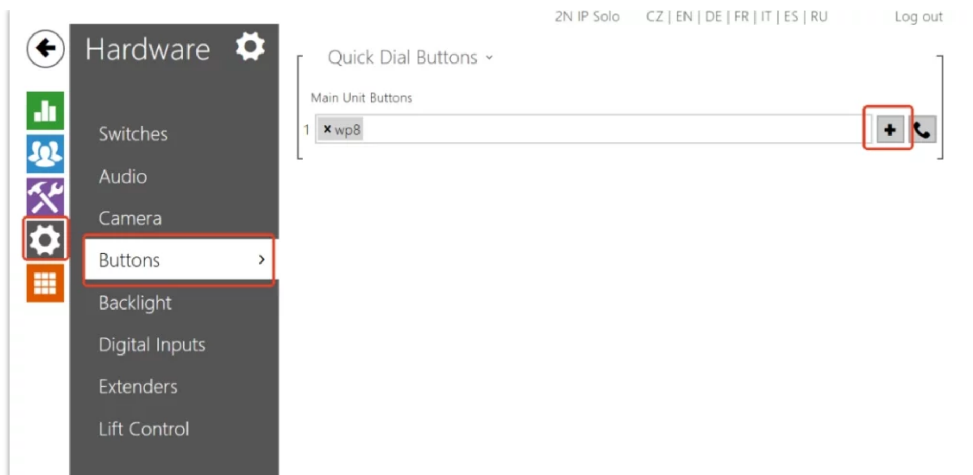
Time Profile [not used]

2N® IP Eye Address

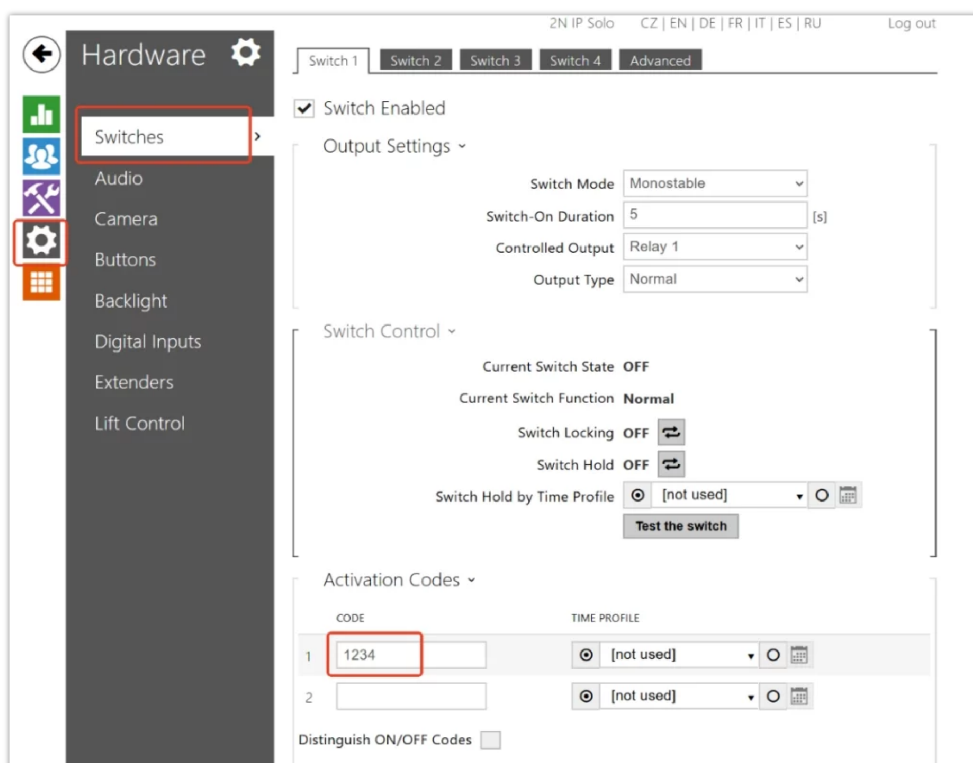
Group Call to Next Number

Number 2

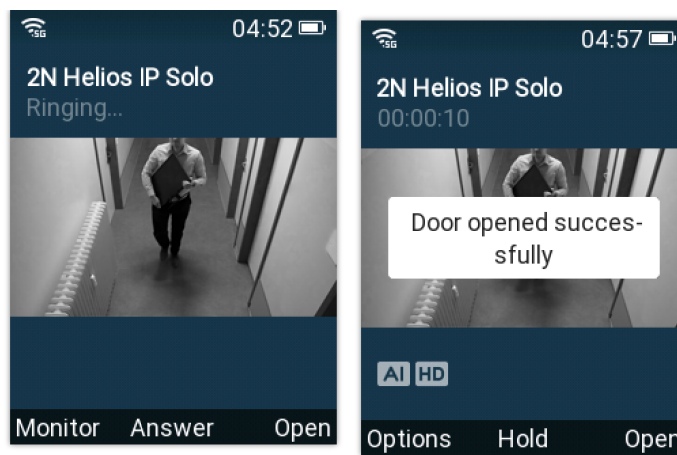
4. Navigate to **Hardware** → **Buttons** and assign the created user to the call button so that it dials the WP8x6 when pressed.



5. Go to **Hardware** → **Switches** and set the DTMF access password that matches the DTMF code configured on the WP8x6.



6. Save all changes and press the call button to ensure the call reaches the WP8x6 and the door unlocks after DTMF input.



SUPPORTED DEVICES

Supported Devices	Firmware Version
WP816	1.0.1.49+
WP826	1.0.1.49+
WP836	1.0.1.49+