

SCOPSERV
INTERNATIONAL INC.

ScopTEL Yealink Distinctive Ringing Configuration



Purpose

- Create a unique custom ring tone for each Yealink phone on the network



Pre-Requisites

- scopserv-telephony25-6.9.3.7.20200305
- .wav files encoded in PCM Uncompressed 16 bit, 8K sampling, Mono
Using free software such as:
<https://www.nch.com.au/switch/index.html>
- .wav files must be uploaded to the server's /tftpboot/ directory using the GUI Tools | File Manager | TFTP Directory or using WinSCP prior to configuring any extensions.

The screenshot displays a file conversion application window. At the top, there is a table titled "List of files to convert" with the following data:

List of files to convert	Format	Size(MB)	Containing Folder	Extended Information
caramba	.raw	0.007	C:\Users\aragon\Documents\ringers	Saved to file: caramba.wav
Piano1	.raw	0.008	C:\Users\aragon\Documents\ringers	Saved to file: Piano1.wav

Below the table, a "Wave Encoder Options" dialog box is open, showing the following settings:

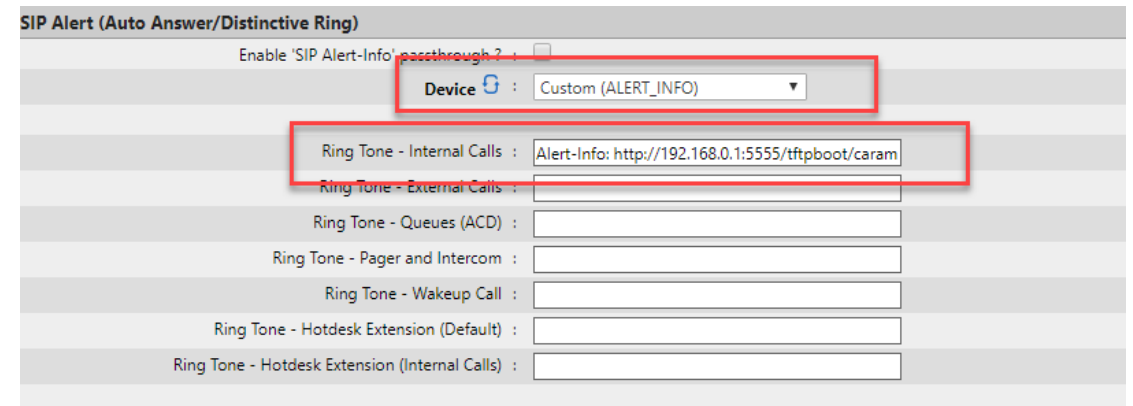
- Settings: Custom
- Encoding: PCM Uncompressed
- Format: 8000 Hz, 16 Bits, Mono

At the bottom of the main window, there are fields for "Save to folder:" (C:\Users\aragon\Documents\ringers\pcmu\6-10) and "Output Format:" (.wav).



Extensions | Phone Options | Global Custom (ALERT_INFO)

- Following these instructions will override any Device/Vendor specific Ring tone options
- Edit your Yealink extension using the Telephony Extensions Manager and click the Phone Options tab.
- SIP Alert (Auto Answer/Distinctive Ring)
- Change the Device type to Custom (ALERT_INFO) using the drop list selector
- For the desired Ring Tone section you must enter the path to the ScopTEL server's /tftpboot/ web path. Doing so will replace the default dial plan with a customization for any extension.
 - The text format must match this syntax:
Alert-Info: http://<Server IP>:<GUI Listen Port>/tftpboot/<filename.wav>/info=<filename>\;x-line-id=0
(omit the <> these are used to indicate variables)
 - As in this working example where the uploaded file name in /tftpboot/ is caramba.wav
Alert-Info: http://192.168.0.1:5555/tftpboot/caramba.wav/info=caramba\;x-line-id=0
- Click Save when done
- Commit the Telephony changes



SIP Alert (Auto Answer/Distinctive Ring)

Enable 'SIP Alert-Info' passthrough? :

Device : Custom (ALERT_INFO)

Ring Tone - Internal Calls : Alert-Info: http://192.168.0.1:5555/tftpboot/caram

Ring Tone - External Calls :

Ring Tone - Queues (ACD) :

Ring Tone - Pager and Intercom :

Ring Tone - Wakeup Call :

Ring Tone - Hotdesk Extension (Default) :

Ring Tone - Hotdesk Extension (Internal Calls) :

Extensions | Phone Options

- You can continue using factory Ring Tones if you choose Custom (ALERT_INFO) if you substitute blank text with Yealink's default values
Bellcore-dr1
Bellcore-dr2
Bellcore-dr3
Bellcore-dr4
Bellcore-dr5
- Click Save when done
- Commit the Telephony changes

SIP Alert (Auto Answer/Distinctive Ring)	
Enable 'SIP Alert-Info' passthrough ? :	<input type="checkbox"/>
Device :	Custom (ALERT_INFO) ▼
Ring Tone - Internal Calls :	Alert-Info: http://192.168.0.1:5555/tftpboot/caram
Ring Tone - External Calls :	Bellcore-dr2
Ring Tone - Queues (ACD) :	Bellcore-dr4
Ring Tone - Pager and Intercom :	
Ring Tone - Wakeup Call :	
Ring Tone - Hotdesk Extension (Default) :	
Ring Tone - Hotdesk Extension (Internal Calls) :	



Extensions | Phone Options | Auto Answer | Vendor Specific Device

- Following these instructions allows you to set a Custom (ALERT_INFO) for each Ring Tone type while still allowing Auto Answer configurations to work.
- Edit your Yealink extension using the Telephony Extensions Manager and click the Phone Options tab.
- SIP Alert (Auto Answer/Distinctive Ring)
- Change the Device type to Yealink using the drop list selector
- Choose any Ring Tone drop list selector and choose the 'Custom' option
- For the desired Ring Tone section you must enter the path to the ScopTEL server's /tftpboot/ web path. Doing so will replace the default dial plan with a customization for any extension.
 - The text format must match this syntax:
Alert-Info: http://<Server IP>:<GUI Listen Port>/tftpboot/<filename.wav>/info=<filename>\;x-line-id=0
(omit the <> these are used to indicate variables)
 - As in this working example where the uploaded file name in /tftpboot/ is caramba.wav
Alert-Info: http://192.168.0.1:5555/tftpboot/caramba.wav/info=caramba\;x-line-id=0
- Click Save when done
- Commit the Telephony changes

SIP Alert (Auto Answer/Distinctive Ring)

Enable 'SIP Alert-Info' passthrough?

Device : Yealink

Call to Auto Answer :

- Internal Calls
- External Calls
- Queues (ACD)
- Pager and Intercom
- Wakeup Call
- Hotdesk Extension (Default)
- Hotdesk Extension (Internal Calls)

Select all, Select none, Invert selection

Ring Tone - Internal Calls : Custom

Custom Ring Tone - Internal Calls : http://192.168.0.1:5555/tftpboot/caramba

Ring Tone - External Calls : Alert External

Ring Tone - Queues (ACD) : Custom

Ring Tone - Pager and Intercom : Default

Ring Tone - Wakeup Call : Default

Ring Tone - Hotdesk Extension (Default) : Default

Ring Tone - Hotdesk Extension (Internal Calls) : Default

Incoming Lines | Destination | Extension(s) | Distinctive Ring (SIP Device)

- You can enable Custom (ALERT_INFO) in the drop list if an Incoming Line's Destination is Extension(s)
- The same syntax applies as before.
- NOTE: If you Enable Use User-defined Call Forward the extension's Custom (ALERT_INFO) will take precedence so if you enable the Use User-defined Call Forward option the Extension's Ring Tone – External Calls text field must be left blank.
- Click Save when done
- Commit the Telephony changes

Incoming Lines

General | **Destination** | Options | Security | Advanced Options | CallerID

Destination #1

Destination : Extension(s)
Default: none

* Extension : Phone: 213: Colombe Remote (SIP) Select

Use User-defined CallForward? :

Ignore Busy/Forward response from Destination? :
If checked, the PBX will ignore any forwarding/busy response it may receive in response to this dial attempt.

Call Rotation Schedule : Disabled

Distinctive Ring (SIP Device) : Custom (ALERT_INFO)
Ring Tone : http://192.168.0.1:5555/tftpboot/caramba.wav/info

SIP Alert (Auto Answer/Distinctive Ring)

Enable 'SIP Alert-Info' passthrough? :

Device : Custom (ALERT_INFO)

Ring Tone - Internal Calls : http://192.168.0.1:5555/tftpboot/Piano1.wav/info=

Ring Tone - External Calls :

Ring Tone - Queues (ACD) : Bellcore-dr4

Ring Tone - Pager and Intercom :



Automatic Provisioning System

- You may set the Internal Ringer tab options to a Template or Override a Template per MAC address.
- In this example a Yealink MAC is edited and the Override template settings?: [x] option is checked else the MAC will defer to the assigned APS Template.
- The Ringtone URL must point to the location of the required file. NOTE: the first time the custom path is executed the phone will download the file before it can be played to the user.
- The Ringer Text must match the Text defined in the Extension's Phone Options
- The Ringer File must use the Custom drop list selector and the Custom File name text must also match the Extension's Phone Options
- Click Save when done
- Commit the APS changes and reboot or resync the phone to download the new configuration

The screenshot displays the ScopTEL IP PBX web interface. The left sidebar shows the user is logged in as 'admin' and lists various configuration categories. The main content area is titled 'Auto Provisioning System (APS): Phone Provisioning' and is currently on the 'Internal Ringer' tab. A yellow warning banner at the top states: 'You must click on Commit button in order to apply Change.' Below this, the 'Internal Ringer' configuration is shown. The 'Override template settings?' checkbox is checked. The 'Ringtone URL' is set to 'http://192.168.0.1:5555/tftpboot/caramba.wav'. Below this, the 'Internal Ringer #1' section is visible, with 'Ringer Text' set to 'caramba' and 'Ringer File' set to 'Custom', with a 'Custom File' of 'caramba.wav'. The 'Internal Ringer #2' section is partially visible below.

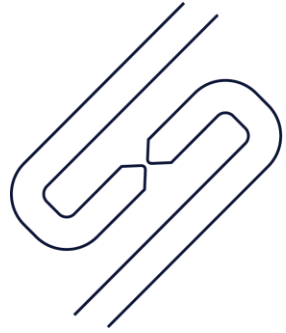
Debugging

- Use the Asterisk CLI with 'sip set debug peer <peername>' commands to display the Alert-Info message which will vary depending on your Alert type configuration as in this example:

```
[Mar 2 11:25:40] From: "Operator" <sip:211@192.168.0.1>;tag=as2bcee56b
[Mar 2 11:25:40] To: <sip:213@192.168.0.101:5060>
[Mar 2 11:25:40] Contact: <sip:211@192.168.0.1:5060>
[Mar 2 11:25:40] Call-ID: 025d39b551267dc52499887f619bcf31@192.168.0.1:5060
[Mar 2 11:25:40] CSeq: 101 INVITE
[Mar 2 11:25:40] User-Agent: Asterisk PBX (ScopServ)
[Mar 2 11:25:40] Date: Mon, 02 Mar 2020 16:25:40 GMT
[Mar 2 11:25:40] Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, SUBSCRIBE, NOTIFY, INFO, PUBLISH, MESSAGE
[Mar 2 11:25:40] Supported: replaces,timer
[Mar 2 11:25:40] Alert-Info: http://192.168.0.1:5555/tftpboot/caramba.wav/info=caramba
[Mar 2 11:25:40] P-Asserted-Identity: "Operator" <sip:211@192.168.0.1>
[Mar 2 11:25:40] Content-Type: application/sdp
[Mar 2 11:25:40] Content-Length: 568
```

- The Alert-Info printout will tell you if the correct SIP header is being generated.





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Congratulations