Text-To-Speech Applications Using Static and Dynamic Prompts Together

Presented by

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Astricon * Phoenix, Arizona, USA October 15, 2009

Options for Text to Speech(TTS):

- Limited, built-in Asterisk functions
- Festival
- Cepstral





Limited, Built-in Functions

- "Say" functions:
 - SAY DATE says the date
 - SAY TIME says the time
 - SAY DATETIME says formatted date and time
 - SAY NUMBER says a given number
 - SAY ALPHA says a given character string
 - SAY PHONETIC says a given character string phonetically
 - SAY DIGITS says a digit string
- Stringing together static prompts

Festival

- Open Source and no 'use' or per channel cost
- Limited voice options
- Lower quality





Cepstral

- Several high-quality voices available in several languages (including Allison Smith "the voice of Asterisk")
- Per-concurrent-channel paid use licenses
- SSML compatible
 - Smoother transitions between words
 - Ability to change emphasis and pronunciation
 - Ability to insert multiple static prompts with multiple TTS-generated sections into a single prompt audio file

Cepstral Example: Inbound

- Shipping status IVR and TTS application
- Customer enters in phone number
- Application gathers shipping status via XML URL query
- Response is formatted and speech audio file is generated
- Audio file is played and dynamic post-message options are given

Cepstral Example: Outbound

- Debt collection company calling delinquent customers
- List contains name and payment date
- If customer picks up the phone the dynamic audio files are generated and played
- Customer is given options and another dynamic file is potentially played
- If Answering Machine is detected, a special TTS message is played

Cepstral ViciDial Demo: Astricon

http://www.eflo.net/tts.php

- Astricon survey live calling application
 - Enter name, company, astricon ID and phone number and you will be called

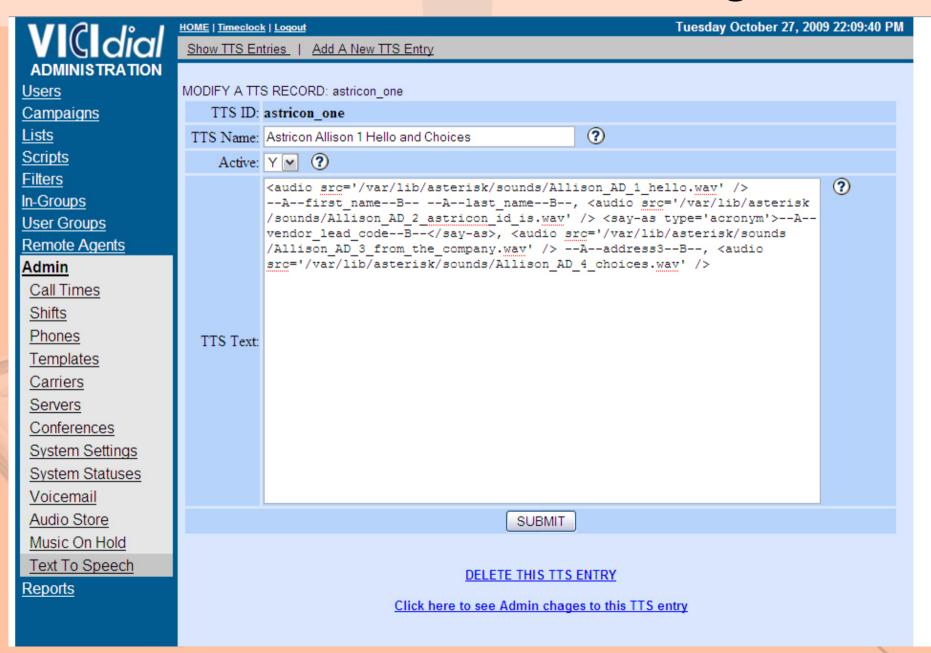
SSML Example

<audio src='/var/lib/asterisk/sounds/Allison AD 1 hello.wav' / > --A--first name--B-- --A--last name--B--, <audio src='/var/lib/asterisk/sounds/Allison AD 2 astricon id is.wav' /> <say-as type='acronym'>--A-vendor lead code--B--</say-as>, <audio src='/var/lib/asterisk/sounds/Allison AD 3 from the c ompany.wav' /> --A--address3--B--, <audio src='/var/lib/asterisk/sounds/Allison AD 4 choices.wa v' />

Astricon Demo: Settings

Vicial	HOME Timeclock Loqout	Tuesday October 27, 2009 22:05:08 PM
VIGICIA	Show Campaigns Add A New Campa	
ADMINISTRATION Users	ASTRICON: <u>Basic Detail</u> <u>Statuses</u> <u>Hot</u>	tKeys Lead Recycling Auto Alt Dial List Mix Survey Pause Codes Real-Time
Campaigns	SURVEY SETTINGS FOR THIS CAMPAIGN:	
Campaigns Main	Survey First Audio File:	TTSastricon_one audio chooser ?
Statuses	Survey DTMF Digits:	123
<u>HotKeys</u>	Survey Not Interested Digit:	1 ②
Lead Recycle	Survey Opt-in Audio File:	TTSastricon_two_developer <u>audio chooser</u> ?
Auto-Alt Dial	Survey Not Interested Audio File:	TTSastricon_two_developer <u>audio chooser</u> ?
<u>List Mix</u>	Survey Method:	HANGUP ②
Pause Codes	Survey No-Response Action:	OPTOUT (*)
<u>Lists</u> Scripts	Survey Not Interested Status:	NI - Not Interested
Filters	Survey Third Digit:	2
In-Groups	Survey Third Audio File:	TTSastricon_three_user <u>audio chooser</u> ?
<u>User Groups</u>	Survey Third Status:	USER ?
Remote Agents	Survey Third Extension:	8300
Admin Danasta	Survey Fourth Digit:	3
<u>Reports</u>	Survey Fourth Audio File:	TTSastricon_four_party <u>audio chooser</u> ?
	Survey Fourth Status:	PARTY ?
	Survey Fourth Extension:	8300
	Survey Response Digit Map:	1-YES 2-LISTEN 3-NOTME X-NO RESPONSE
	Survey Survey Xfer Extension:	8300
	Survey Campaign Recording Directory:	/home/survey
	Voicemail:	voicemail chooser ?
	SUBMIT	

Astricon Demo: Settings



Companies and Applications:

Asterisk Software based PBX - www.asterisk.org
Cepstral Text to Speech - www.cepstral.com
ViciDial Call Center - www.vicidial.com
Festival Speech Synthesis - www.cstr.ed.ac.uk/projects/festival/
Allison Smith Voice Talent - www.theivrvoice.com





Thank you!

For more information, visit us at the ViciDial booth in the Expo hall, or contact us at:

http://www.vicidial.com