

Programmable Voice Chip Module

The ACS CPU features the ability to store and utilize custom audio. This audio may manually or automatically broadcast over speakers, and in some cases, to administrative telephones.

The CPU can store approximately one hour of custom audio in the form of 8 bit, monophonic, u-law WAV files. Files are loaded from the programming PC via a manufacturer supplied USB A/B cable. One end of the USB cable connects to the USB port on the ACS CPU. The other end of the USB cable connected to a USB port on the programming PC.

The WAV files are loaded into the system through use of the VCMMessageUtil software via the included USB A/B cable.

The VCMMessageUtil software is typically distributed as a ZIP file containing both the VCMMessageUtilSetup installation file and a folder containing the USB driver. It is available on www.Valcom.com/acs.

The USB driver is found in the VCMMessageUtil USB Driver folder and is called USBXpressInstaller.

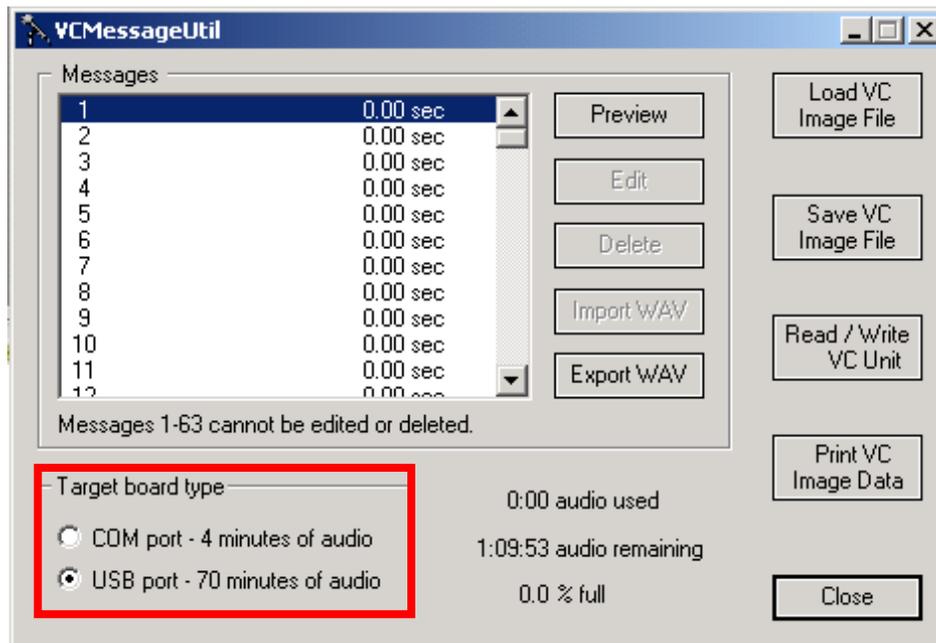


Run the USBXpressInstaller before running the VCMMessageUtilSetup installation file.



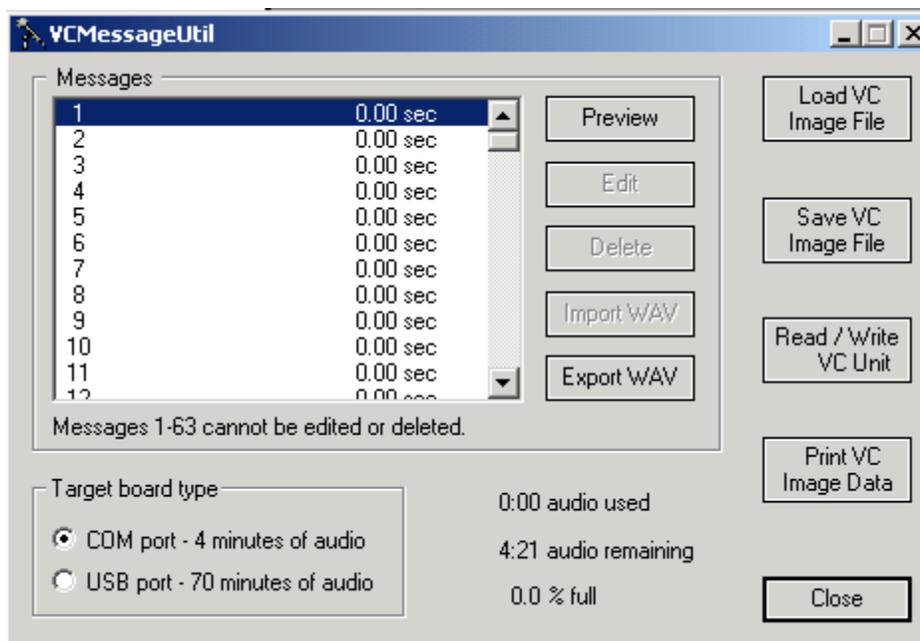
Once these 2 steps are complete, the VCMMessageUtil program will be found under the PC's programs directory.

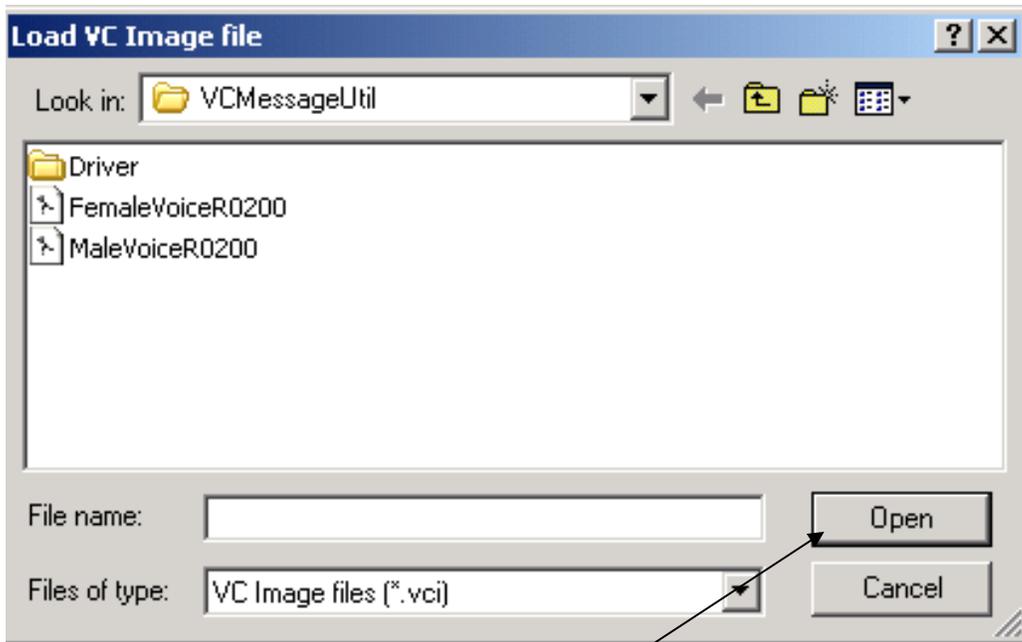
Choose the Target Board Type of USB port



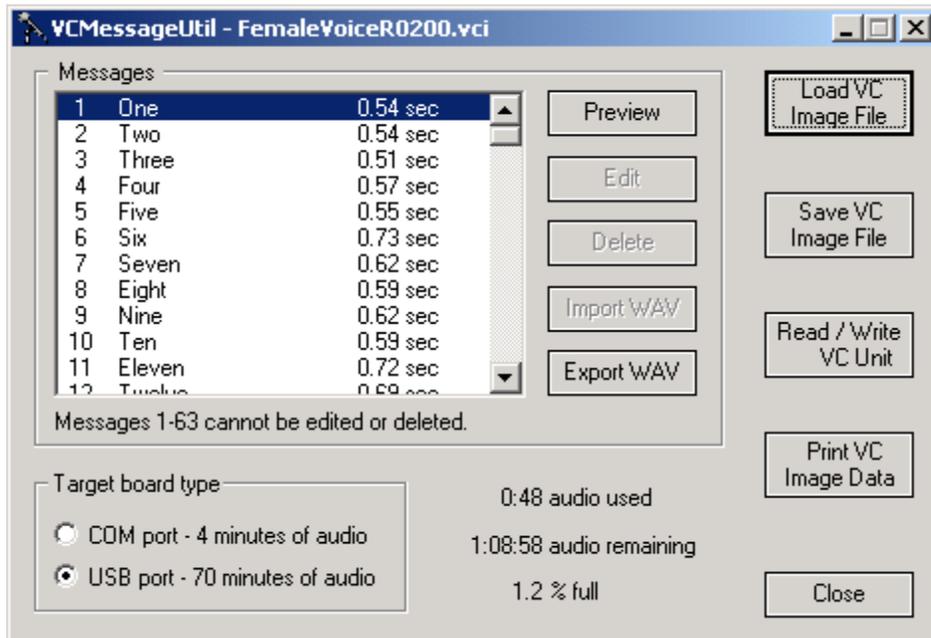
Load VC Image File

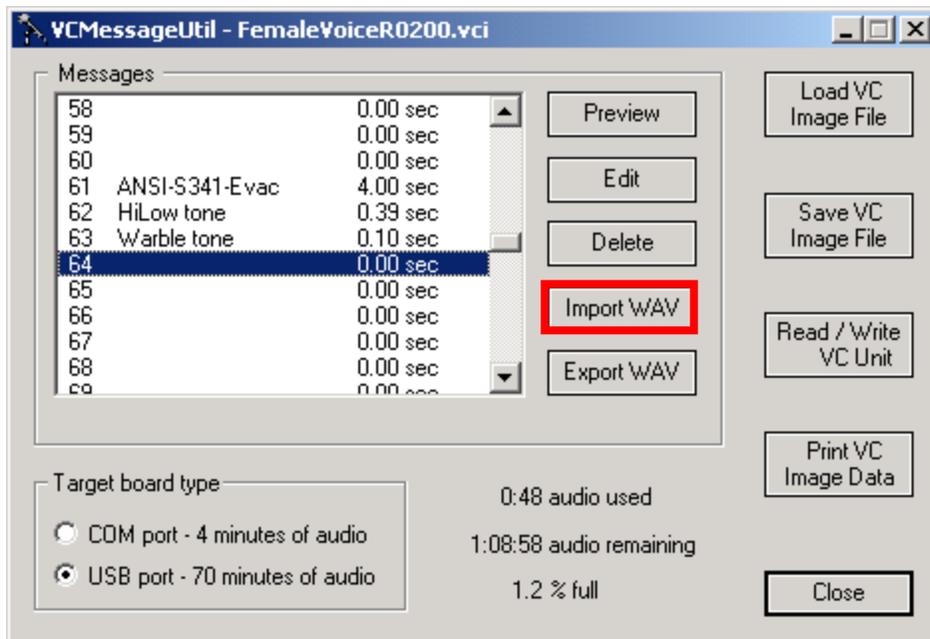
Initially, you will load a default file. Default files include all the voice phrases and some of the tones used by the system. Default files are available with the default phrases spoken by a Female or Male voice.





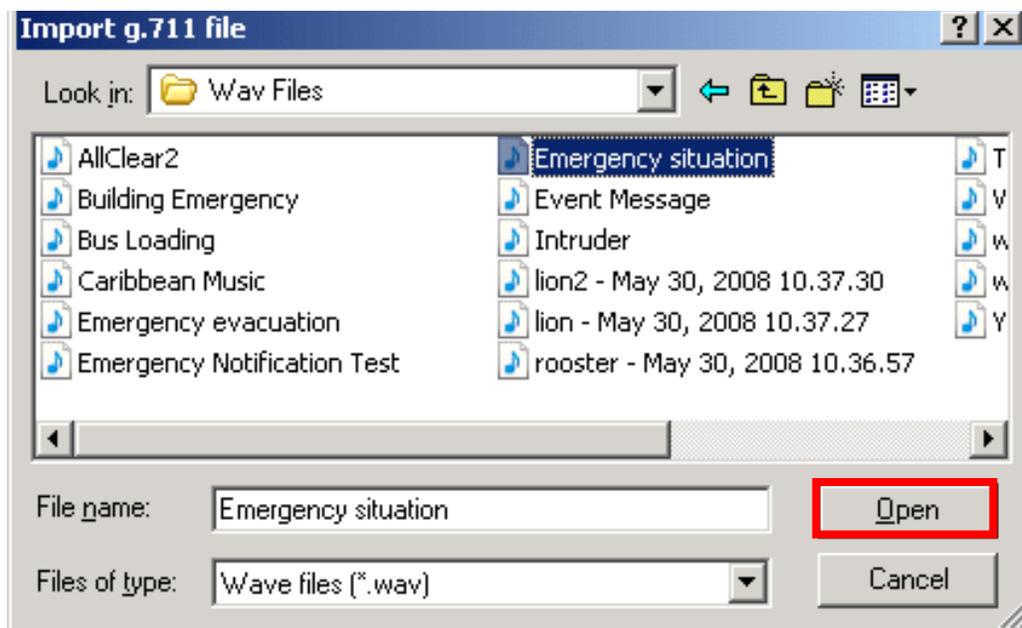
Choose a VC Image File and click Open.



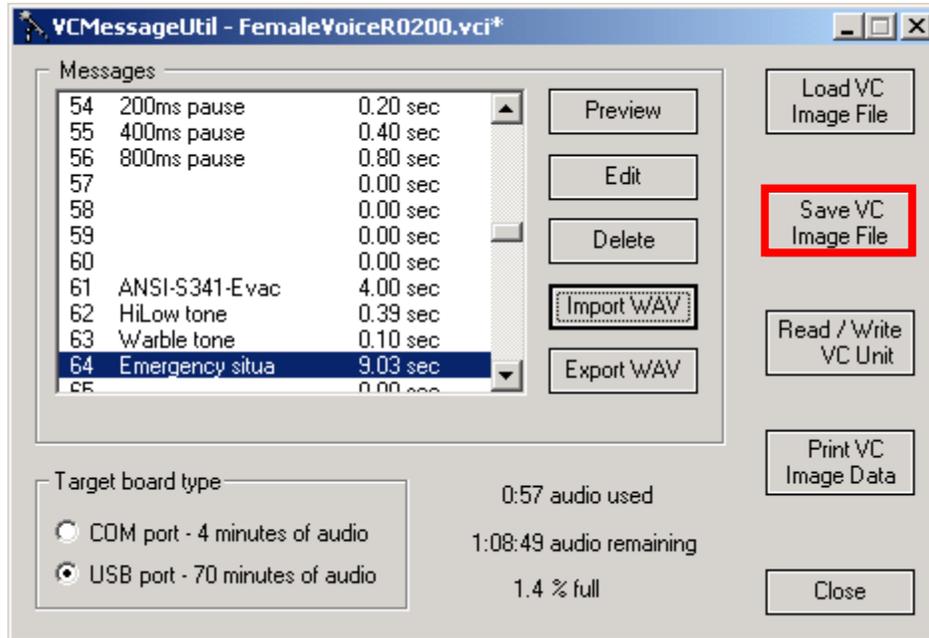


Custom 8-bit u-law WAV files may be loaded beginning at message 64. Choose the message slot you wish to populate and click “Import WAV”.

Browse to the location of the desired WAV file. Select the file and click “Open”.

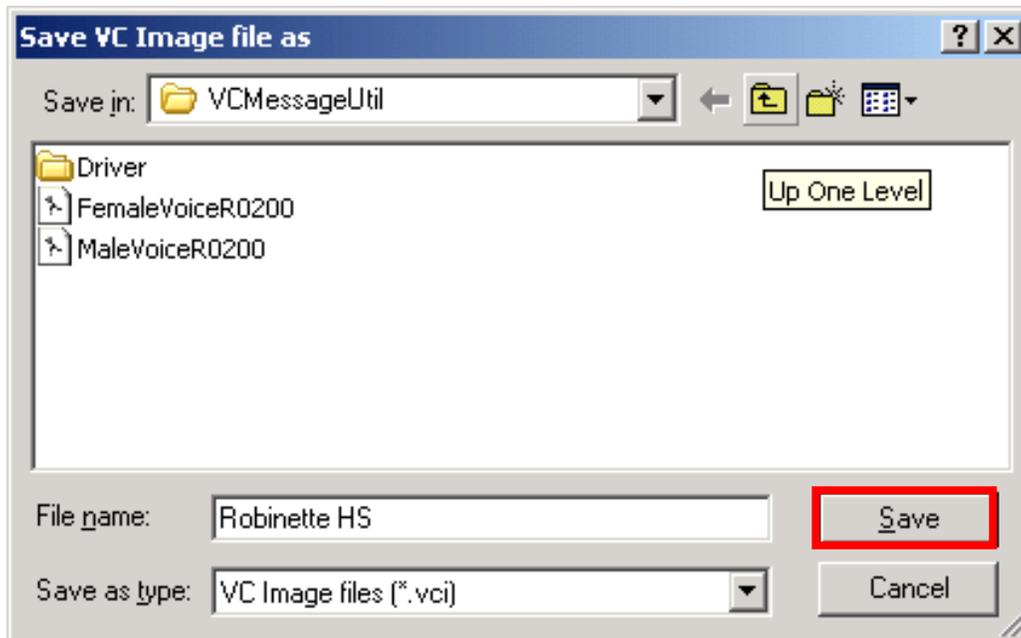


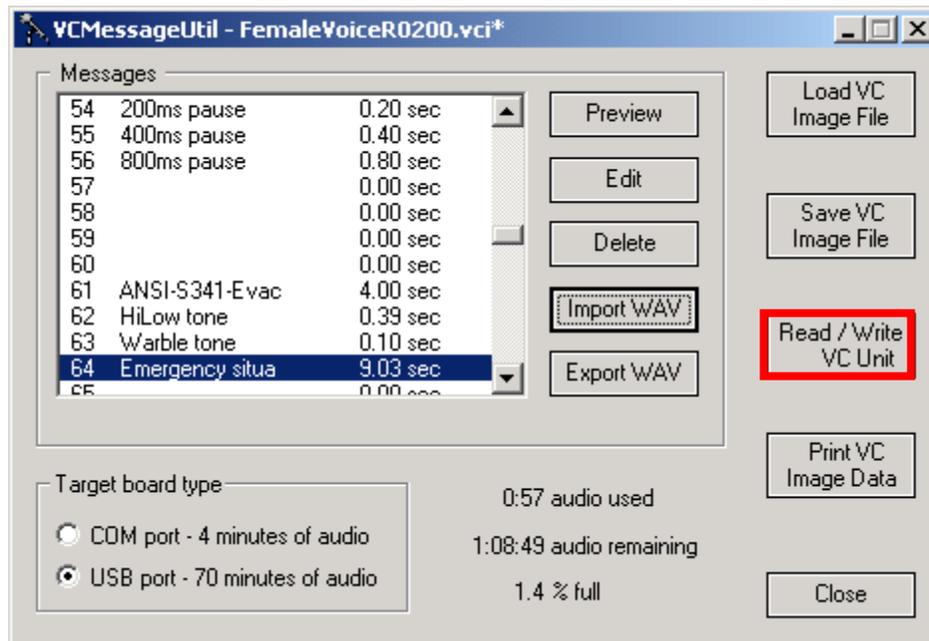
Repeat the above steps until all custom WAV files have been added.



Click “Save VC Image File”, choose a folder and provide your customized VCI file with a unique name.

Click “Save” to save your VCI file.

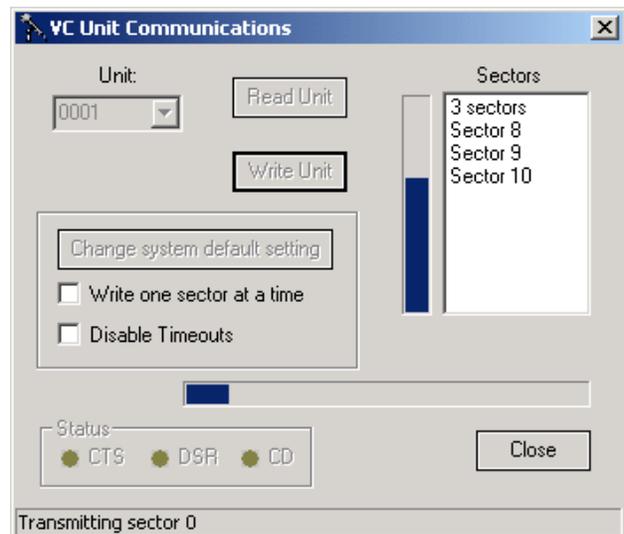
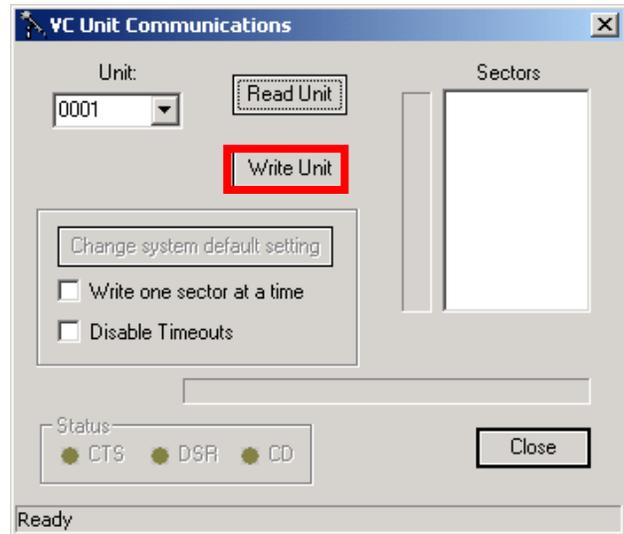




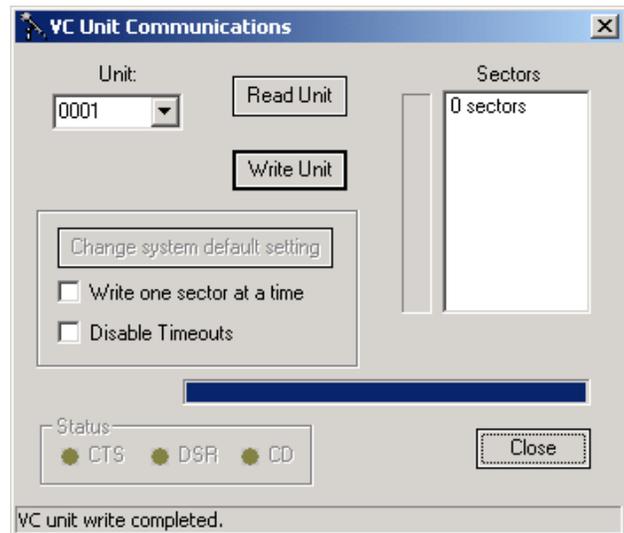
Click "Read/Write VC Unit" to upload the customized VCI file to the ACS CPU

Upload Process

Click "Write Unit" to initiate the process of uploading the customized VCI file to the ACS CPU.



Write in process.



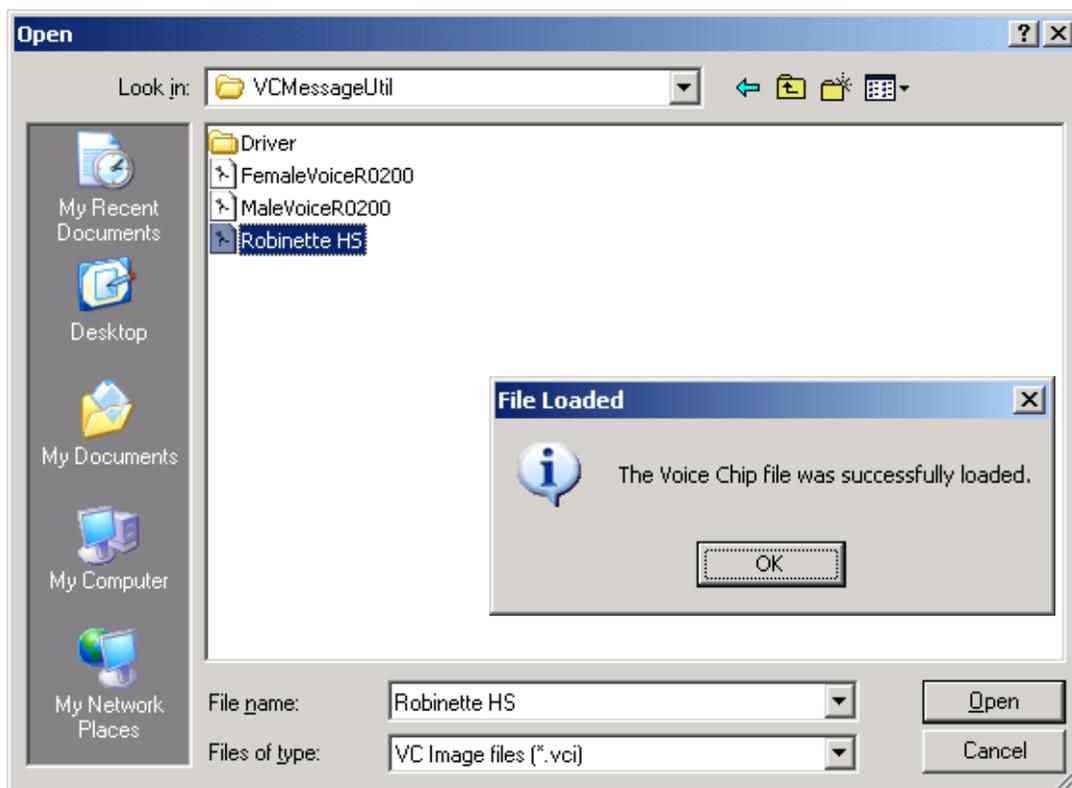
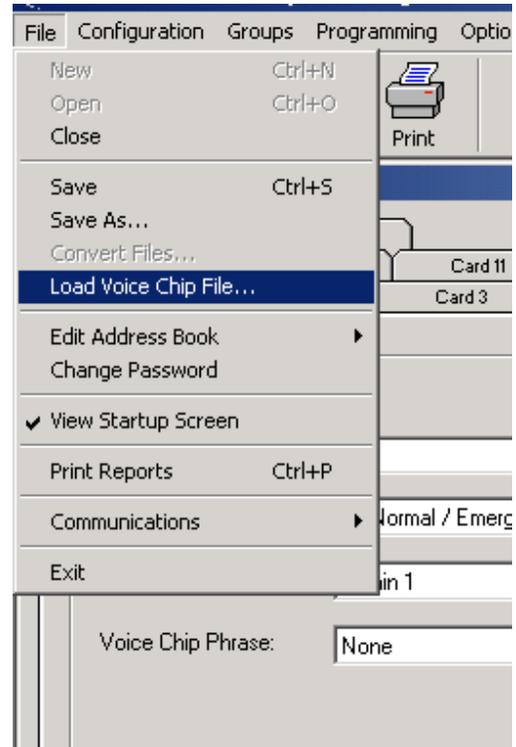
The final step is accomplished through the ACS System Programming Tool.

Invoke the ACS Programming Tool.

Receive files from the system or open the desired system files.

Click "File".

Select "Load Voice Chip File".



Programmable Voice Chip Module Operational Details

“Phrase” as used below refers to pre-recorded audio. The recorded audio can be voice and/or tone.

Schedules

A scheduled event may be programmed to play a phrase.

Alert Tones

There are system-wide options to substitute voice chip phrases in place of one-way and/or handsfree alert tones (one phrase for handsfree, the same or a different phrase for one-way).

Voice Phrase Dial Codes

The User may play a recorded phrase to a port or page group “on the fly”, by selecting the phrase and destination via dial codes.

Play a Recorded Phrase – Off hook Mode

Format:

#31

3-digit phrase number 024..127

Page or all call dial code

For example, dialing: **#31 065 #*112** will make an emergency priority page connection to audio group 2 (#*112), and then will play phrase number 065. *The connection will remain active until the Office Telephone hangs up.* In addition to the recorded phrase, *the Office Telephone is connected to the speakers during and after playing the recorded voice.* This dial code option may be used to play a custom pre-announce tone before a real-time page, or to let the user speak additional information after playing a recorded announcement.

Play a Recorded Phrase, with Queue and Repeat

Format:

#32

3-digit phrase number 024..127

Page or all call dial code

Number of plays 1..98

If not entered = 1, If 0 = cancel this request, If 99 repeat until stopped

Replay time #1..#999 (seconds)

If not entered = 30 seconds

For example, dialing: **#32 065 #*112 5 #60 <hang up>** will make an emergency priority page connection to audio group 2 (#*112), will play phrase number 065, and will release the page. This will be repeated after 60 seconds, and the sequence will continue until the phrase has been played 5 times.

-The replay time is the *minimum* length of time between repetitions of the phrase

-Timing for the replay may be longer than the time-out period if new phrases are added to the queue, or if multiple phrases are being repeated

-Up to 12 phrases may be queued for play

-New phrase requests will be queued according to the order entered and the page priority

-Priorities, from high to low: Emergency all call, emergency group, all call, group

-New phrases will be played before repeat phrases

-Only one phrase will be played at a time, to avoid missing speakers in overlapping Groups.

-The current phrase will be interrupted if a higher priority request enters the queue; the interrupted phrase will be played in its entirety as soon as possible.

Cancel a Phrase

Remove all queued occurrences of a phrase and cancel if playing.

Format:

#33

Phrase 024...127

Clear the queue

Cancel the current phrase and delete all queued phrases.

Format:

#34 (level 3 Office Telephone only)

Voice Phrase Programming Setup

The Voice Chip Programmer (VCMessagUtil) is used to send the digitized audio to the ACS CPU.

The Voice Chip programming input in a USB type connector located on the back edge of the ACS CPU. Use the USB cable and drivers provided. The programming PC must have a USB port available for programming phrases.

The Programming Tool obtains the information it needs to enable the voice phrase features by importing phrase names, numbers, and durations from the Voice Chip Programmer's data file (.VCI file).

Important – Importing the Voice Chip Image File into the Programming Tool: When the Voice Chip Programmer is used to send a new or modified .VCI file to the system, you **must** also perform the following to fully implement the changes:

1. Use the Programming Tool to "Receive Files" from the system
2. Go to "File", "Load Voice Chip File..." and open the new .VCI file
3. The phrase information is now available within the Programming Tool. Modify Schedule, Alert Tone, and/or Room Number Announcement programming as desired to utilize the voice phrases.
4. Save your files
5. "Send Files" back to the system