2020



Advanced Communication System

Revision 2020-1.00

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Engineered, Built and Supported in the U.S.A.

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ACS by Valcom is designed to meet the needs of a most small to medium size commercial, government or educational facilities. ACS is designed for easy access through the facility telephone system and/or through dedicated system phones. Great care has been taken to ensure intuitive ease of use via LAN/WAN connected programming and administrative software and a customizable dialing plan. ACS features:

- Easy to Use and Administer
- LAN/WAN Network Accessible
- Easy Dual Path Telephone System Access
- Customizable 1,2,3 or 4 Digit Dialing Plan
- Supports Speaker Call Buttons
- Normal/Emergency/Urgent Call Button Functions
- Enhanced Caller ID
- Windows[®] Based Setup Software
- Optional Integrated Wire Management
- Easily Expandable from 24 to 72 Page and/or Intercom Zones
- Automatic Talkback Switching
- Two Way Talkback Intercom with Privacy Tone
- Supports Modern 45-Ohm Talkback Speakers or Existing Old-Fashioned 25-Volt Speakers (ACS Model Dependent)
- One Way Paging with Pre-Announce Tone
- 24 Completely Flexible Non-Blocking Audio Groups
- Non-Blocking Dedicated Audio Amplifier per Zone
- Uses Modern Unshielded Twisted Pair Cabling
- Compatible with Most Existing Speaker Wiring
- Design Features Point-Of-Sound Volume Settings
- Integrated Alert Tones
- Integrated Schedule Tones
- Supports Custom Tones and Messages
- Dual Auxiliary Music Inputs
- External Relays for Easy Integration
- Programmable Switch Inputs
- Calendar Based Scheduling with NTP Time Updates
- 8 Programmable Schedules
- Automatic Daylight-Saving Time Adjustment
- Integrated 100-240V 50/60Hz Internal Switching Power Supply
- Convenient and Compact Wall Mount Design
- Synchronous and Digital Clock Correction
- Proudly Engineered, Built and Supported in the U.S.A.

CPU Card

The ACS CPU Card is the main circuit card in the system. This card provides for the following connections:

- 2 Administration FXS ports. These ports are referred to as Admins or Admin ports and the telephone instrument(s), either dedicated telephones or phone system phones, used to access these ports for intercom or group announcements are referred to as Admin phones or Admin stations.
- 2) Support for 2-wire digital and 59th minute clock correction
- 3) 4 relay outputs
- 4) 3 switch (contact closure) inputs
- 5) 100 mbps Ethernet connection for system programming
- 6) 2 monophonic auxiliary audio inputs (for music, line level audio)
- 7) A lo-Z microphone input (for general announcements to all zones)

A convenient I/O block is provided for making connection to the ACS. Alternately, connections may be made with a 25-pair cable and 66M150 punch down blocks that are located within 15 feet of the ACS.

The first 2 pair on the ACS CPU P1 66M150 block provide connections to the facility's telephone system or to dedicated standard analog telephones. Each pair may be connected to either a loop start trunk port (c.o. line port), a FXO port, to a dedicated telephone or to a line position on a multi-line stand-alone telephone.

The 2 auxiliary inputs are inputs for program material such as background music, automated announcements or any 8 to 600-ohm line level unbalanced audio source.

The lo-z microphone input is designed to accommodate a low impedance microphone that may be used for general announcements. If you include a microphone in your system, one of the 3 switch inputs will be used to enable the microphone. This switch input function is available in system programming.

The 3 switch inputs are software programmable to provide such functions as tone activation, reset system time, night ring, activate microphone, force schedule, etc.

The 4 relay outputs are normally open connections that are software programmable to be under manual control, to cycle on and off, to operate following a time schedule/group or to activate following a card fault or an emergency station calling in to an office phone. These relays may also be used to close upon normal or emergency access of groups. These relays are intended to operate slave relays of the appropriate contact rating for your intended purpose. These 8 relays are rated for a maximum load of 2 amps @ 30 volts dc.

There are preset screwdriver adjustable volume adjustments on the on the ACS CPU marked Siren, Telebell, Hi_Tone, Lo_Tone, Chime 2, Chime 1 and Mic.

These are factory preset and do not often need to be adjusted.

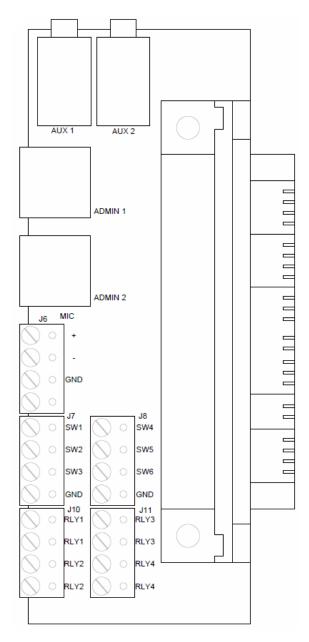
Mic controls the microphone volume; the others adjust as follows.

Dial Code Function	CPU Board	Programming Tool	
Fire Alarm	Siren	High/Low	
Tornado Tone	TeleBell	Warble	
	Hi_Tone	683 Hz	
Emergency Time Tone	Lo_Tone	512 Hz	
	Chime 2	Dual Chime	
All Clear	Chime 1 *	Single Chime High	

^{*}Controls pre-page alert tone for both station and all call

CPU Card Amphenol Pinout

	T: 00 M//://DI	A L : (E)(O) 4 E:
Pair 1	Tip – 26 White/Blu	
	Ring – 1 Blue/Whit	
Pair 2	Tip – 27 White/Ora	
	Ring – 2 Orange/V	
Pair 3	Tip – 28 White/Gre	
	Ring – 3 Green/WI	
Pair 4	Tip – 29 White/Bro	
	Ring - 4 Brown/W	
Pair 5	Tip - 30 White/Sla	
i ali 5	Ring – 5 Slate/Wh	
Pair 6	Tip – 31 Red/Blue	
raii 0	Ring – 6 Blue/Red	
Doir 7	Tip - 32 Red/Oran	nge Aux 2
Pair 7	Ring - 7 Orange/R	Red Aux 2
Doi: 0	Tip - 33 Red/Gree	en
Pair 8	Ring – 8 Green/Re	ed
D : 0	Tip – 34 Red/Brow	
Pair 9	Ring – 9 Brown/Re	
	Tip – 35 Red/Slate	
Pair 10	Ring – 10 Slate/Red	
	Tip – 36 Black/Blu	
Pair 11	Ring – 11 Blue/Blac	
	Tip – 37 Black/Ora	
Pair 12	Ring – 12 Orange/B	
	Tip – 38 Black/Gre	
Pair 13	Ring – 13 Green/Bla	
	Tip – 39 Black/Bro	
Pair 14	Ring – 14 Brown/Bla	
	Tip – 40 Black/Sla	
Pair 15	Ring – 15 Slate/Black	
	Tip – 41 Yellow/Bl	
Pair 16		
	Ring – 16 Blue/yello	
Pair 17	Tip – 42 Yellow/Or	
	Ring – 17 Orange/Y	
Pair 18	Tip – 43 Yellow/Gr	
	Ring – 18 Green/ye	
Pair 19	Tip – 44 Yellow/Br	
	Ring – 19 Brown/Ye	ellow Relay 2 M
Pair 20	Tip – 45 Yellow/Sla	
	Ring – 20 Slate/Yell	
Pair 21	Tip – 46 Violet/Blu	
	Ring – 21 Blue/Viole	
Pair 22	Tip – 47 Violet/Or	
	Ring – 22 Orange/	
Pair 23	Tip – 48 Violet/Gr	
1 411 20	Ring – 23 Green/Vi	
Pair 24	Tip – 49 Violet/Bro	own
1 all 24	Ring – 24 Brown/V	iolet
Pair 25	Tip – 50 Violet/SI	late
Fall 25	Ring – 25 Slate/Vio	olet



Supplied CPU Interface

SW 1-3 share a common ground. For example, switch 1 would connect between SW1 and GND

SW 4-6 are not available on the V-ACS

45-Ohm Talkback Station Card

This card provides for 24 Stations – with each station supporting one of the following:

- 1) up to two attenuated 45-ohm speakers and a call switch connected through up to 1500 feet of 24 AWG UTP cabling.
- 2) up to two attenuated 45-ohm speakers only connected through up to 1500 feet of 24 AWG UTP cabling.
- 3) one-way self-amplified speakers (output requires proper attenuation)
- 4) an audio feed into auxiliary or TEL LINE input on a central amplifier (output requires proper attenuation)
- 5) a switch (contact closure only no speaker) input for special purpose signaling
- 6) hands-free 2-way communication from any attenuated 45-ohm speaker location to the office phones.
- 7) the ability to call an office admin phone by pressing the station call button.

Speaker cards are individually addressed via the hexadecimal rotary switch located on the front of the card. The front of the card is the edge with the Amphenol connector. The card in the cabinet containing the CPU should be factory set to address zero (0); the expansion card should be set to address one (1).

These cards require 2-amps of current at 24VDC and interconnect via an appropriate length 40-pin ribbon cable.

A convenient I/O block is provided for making speaker and call button connections. Alternately, connections may be made with a 25-pair cable and 66M150 punch down blocks.

The 45-ohm speakers used with the ACS must have attenuation built-in or must use an in-line speaker volume control. Valcom offers a full line of attenuated 45-ohm speakers.

Legacy Valcom V-2924 systems do not use attenuated speakers and provide a different speaker pinout configuration. Contact us for convenient options to facilitate upgrading existing V-2924 installations.

Note: Disconnect system power before adding or removing the expansion cabinet.

For retrofits, it is critical to verify the integrity and suitability of existing speakers and cables prior to connection to the ACS. Failure to do so may cause irreversible damage. A procedure for assessing field wiring may be found in the Best Practices and General Troubleshooting Procedures.

	1	1
Pair 1	Tip – 26 White/Blue	Station 1 Speaker
	Ring – 1 Blue/White	Station 1 Speaker
Pair 2	Tip – 27 White/Orange	Station 1 Call Switch
	Ring – 2 Orange/White	Station 1 Call Switch
Pair 3	Tip – 28 White/Green	Station 2 Speaker
	Ring – 3 Green/White	Station 2 Speaker
Pair 4	Tip – 29 White/Brown	Station 2 Call Switch
	Ring - 4 Brown/White	Station 2 Call Switch
Pair 5	Tip - 30 White/Slate	Station 3 Speaker
	Ring – 5 Slate/White	Station 3 Speaker
Pair 6	Tip – 31 Red/Blue	Station 3 Call Switch
	Ring – 6 Blue/Red	Station 3 Call Switch
Pair 7	Tip – 32 Red/Orange	Station 4 Speaker
	Ring – 7 Orange/Red	Station 4 Speaker
Pair 8	Tip – 33 Red/Green	Station 4 Call Switch
	Ring – 8 Green/Red	Station 4 Call Switch
Pair 9	Tip – 34 Red/Brown	Station 5 Speaker
	Ring – 9 Brown/Red	Station 5 Speaker
Pair 10	Tip – 35 Red/Slate	Station 5 Call Switch
	Ring – 10 Slate/Red	Station 5 Call Switch
Pair 11	Tip – 36 Black/Blue	Station 6 Speaker
	Ring – 11 Blue/Black	Station 6 Speaker
Pair 12	Tip – 37 Black/Orange	Station 6 Call Switch
	Ring – 12 Orange/Black	Station 6 Call Switch
Pair 13	Tip – 38 Black/Green	Station 7 Speaker
1 4.1. 10	Ring – 13 Green/Black	Station 7 Speaker
Pair 14	Tip – 39 Black/Brown	Station 7 Call Switch
	Ring – 14 Brown/Black	Station 7 Call Switch
Pair 15	Tip – 40 Black/Slate	Station 8 Speaker
	Ring – 15 Slate/Black	Station 8 Speaker
Pair 16	Tip – 41 Yellow/Blue	Station 8 Call Switch
	Ring – 16 Blue/yellow	Station 8 Call Switch
Pair 17	Tip – 42 Yellow/Orange	Station 9 Speaker
	Ring – 17 Orange/Yellow	Station 9 Speaker
Pair 18	Tip – 43 Yellow/Green	Station 9 Call Switch
	Ring – 18 Green/yellow	Station 9 Call Switch
Pair 19	Tip – 44 Yellow/Brown	Station 10 Speaker
	Ring – 19 Brown/Yellow	Station 10 Speaker
Pair 20	Tip – 45 Yellow/Slate	Station 10 Call Switch
	Ring – 20 Slate/Yellow	Station 10 Call Switch
Pair 21	Tip – 46 Violet/Blue	Station 11 Speaker
1 411 21	Ring – 21 Blue/Violet	Station 11 Speaker
Pair 22	Tip – 47 Violet/Orange	Station 11 Call Switch
	Ring – 22 Orange/Violet	Station 11 Call Switch
Pair 23	Tip – 48 Violet/Green	Station 12 Speaker
	Ring – 23 Green/Violet	Station 12 Speaker
Pair 24	Tip – 49 Violet/Brown	Station 12 Call Switch
	Ring – 24 Brown/Violet	Station 12 Call Switch
Pair 25	Tip – 50 Violet/Slate	
	Ring – 25 Slate/Violet	

45 Ohm P2 Amphenol Connector

	Tip – 26 White/Blue	Station 13 Speaker
Pair 1	Ring – 1 Blue/White	Station 13 Speaker
	Tip – 27 White/Orange	Station 13 Call Switch
Pair 2	Ring – 2 Orange/White	Station 13 Call Switch
	Tip – 28 White/Green	Station 14 Speaker
Pair 3	Ring – 3 Green/White	Station 14 Speaker
	Tip – 29 White/Brown	Station 14 Call Switch
Pair 4	Ring - 4 Brown/White	Station 14 Call Switch
	Tip - 30 White/Slate	Station 15 Speaker
Pair 5	Ring – 5 Slate/White	Station 15 Speaker
	Tip – 31 Red/Blue	Station 15 Call Switch
Pair 6	Ring – 6 Blue/Red	Station 15 Call Switch
	Tip – 32 Red/Orange	Station 16 Speaker
Pair 7	Ring – 7 Orange/Red	Station 16 Speaker
	Tip – 33 Red/Green	Station 16 Speaker
Pair 8	Ring – 8 Green/Red	Station 16 Call Switch
	Tip – 34 Red/Brown	Station 17 Speaker
Pair 9	Ring – 9 Brown/Red	Station 17 Speaker
	Tip – 35 Red/Slate	Station 17 Speaker Station 17 Call Switch
Pair 10	Ring – 10 Slate/Red	Station 17 Call Switch
		Station 18 Speaker
Pair 11	Tip – 36 Black/Blue Ring – 11 Blue/Black	
		Station 18 Speaker
Pair 12	Tip – 37 Black/Orange	Station 18 Call Switch
	Ring – 12 Orange/Black	Station 18 Call Switch
Pair 13	Tip – 38 Black/Green	Station 19 Speaker
	Ring – 13 Green/Black	Station 19 Speaker
Pair 14	Tip – 39 Black/Brown	Station 19 Call Switch
	Ring – 14 Brown/Black	Station 19 Call Switch
Pair 15	Tip – 40 Black/Slate	Station 20 Speaker
	Ring – 15 Slate/Black	Station 20 Speaker
Pair 16	Tip – 41 Yellow/Blue	Station 20 Call Switch
	Ring – 16 Blue/yellow	Station 20 Call Switch
Pair 17	Tip – 42 Yellow/Orange	Station 21 Speaker
	Ring – 17 Orange/Yellow	Station 21 Speaker
Pair 18	Tip – 43 Yellow/Green	Station 21 Call Switch
	Ring – 18 Green/yellow	Station 21 Call Switch
Pair 19	Tip – 44 Yellow/Brown	Station 22 Speaker
	Ring – 19 Brown/Yellow	Station 22 Speaker
Pair 20	Tip – 45 Yellow/Slate	Station 22 Call Switch
	Ring – 20 Slate/Yellow	Station 22 Call Switch
Pair 21	Tip – 46 Violet/Blue	Station 23 Speaker
I all Z I	Ring – 21 Blue/Violet	Station 23 Speaker
Pair 22	Tip – 47 Violet/Orange	Station 23 Call Switch
T UII ZZ	Ring – 22 Orange/Violet	Station 23 Call Switch
Pair 23	Tip – 48 Violet/Green	Station 24 Speaker
1 011 25	Ring – 23 Green/Violet	Station 24 Speaker
Pair 24	Tip – 49 Violet/Brown	Station 24 Call Switch
1 all 24	Ring – 24 Brown/Violet	Station 24 Call Switch
Dair 25	Tip – 50 Violet/Slate	
Pair 25	Ring – 25 Slate/Violet	

25-Volt Talkback Station Card

This card provides for 24 Stations with each station supporting one of the following:

- 1) 25.5 Volt speakers (up to 1-watt load) and a call switch connected through existing speaker cabling.
- 2) 25.5 Volt speakers only (up to 1-watt load) connected through existing speaker cabling.
- 3) one-way self-amplified speakers (output requires proper attenuation)
- 4) an audio feed into auxiliary or TEL LINE input on a central amplifier (output requires proper attenuation)
- 5) a switch (contact closure only no speaker) input for special purpose signaling
- 6) hands-free 2-way communication from any 25-volt speaker location to the office phones.
- 7) the ability to call an office phone by pressing the station call button.

Speaker cards are individually addressed via the hexadecimal rotary switch located on the front of the card. The front of the card in the edge with the Amphenol connector. The card in the cabinet containing the CPU should be factory set to address zero (0); the expansion card should be set to address one (1).

The hexadecimal rotary switch located near the ribbon cable connector is a one-way audio volume control.

These cards require 2-amps of current at 24VDC and interconnect via an appropriate length 40-pin ribbon cable.

A convenient I/O block is provided for making connection to the Station Card. Alternately, connections may be made with a 25-pair cable and connection blocks suitable for the AWG wire being utilized.

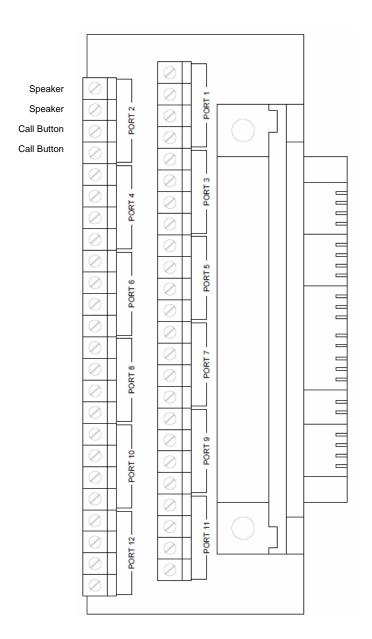
Note: Disconnect system power before adding or removing system cards

It is critical to verify the integrity and suitability of existing speakers and cables prior to connection to the 25-Volt Talkback Station Card. Failure to do so may cause irreversible damage. A procedure for assessing field wiring may be found in the <u>Best Practices and General Troubleshooting Procedures</u>.

Pair 1		Tip – 26 White/Blue	Station 1 Speaker
Pair 2 Tip − 27 White/Orange Ring − 2 Station 1 Call Switch B Ring − 2 Orange/White Station 2 Call Switch B Station 2 Speaker Pair 3 Tip − 28 White/Green Station 2 Speaker Ring − 3 Green/White Station 2 Call Switch A Ring − 4 Brown/White Station 2 Call Switch B Station 3 Call Switch B Station 3 Speaker Pair 4 Ring − 5 Slate/White Station 3 Speaker Pair 6 Ring − 5 Slate/White Station 3 Call Switch A Ring − 6 Blue/Red Station 3 Call Switch B Station 3 Call Switch B Station 4 Speaker Pair 7 Tip − 31 Red/Green Station 4 Speaker Ring − 7 Orange/Red Station 4 Speaker Ring − 7 Orange/Red Station 4 Speaker Pair 8 Ring − 7 Orange/Red Station 4 Speaker Pair 9 Ring − 8 Green/Red Station 4 Call Switch A Ring − 9 Station 5 Speaker Pair 10 Tip − 34 Red/Brown Station 5 Speaker Pair 10 Ring − 10 Slate/Red Station 5 Call Switch A Ring − 10 Slate/Red Station 5 Call Switch B Station 5 Call Switch B Ring − 11 Pair 11 Tip − 36 Black/Blue Station 6 Speaker Pair 12 Tip − 37 Black/Orange Station 6 Call Switch A Ring − 19	Pair 1		
Pair 3			
Pair 3	Pair 2		
Pair 4			
Pair 4	Pair 3	Ring = 3 Green/White	
Pair 5			Station 2 Call Switch A
Pair 5 Tip - 30 White/Slate Station 3 Speaker Ring - 5 Slate/White Station 3 Call Switch A Pair 6 Tip - 31 Red/Blue Station 3 Call Switch A Pair 7 Tip - 32 Red/Orange Station 4 Speaker Pair 8 Tip - 33 Red/Green Station 4 Call Switch A Pair 9 Tip - 33 Red/Green Station 4 Call Switch A Pair 9 Tip - 34 Red/Brown Station 5 Speaker Pair 10 Tip - 35 Red/Slate Station 5 Speaker Pair 10 Tip - 35 Red/Slate Station 5 Call Switch B Pair 11 Tip - 35 Red/Slate Station 5 Call Switch B Pair 11 Tip - 35 Red/Slate Station 6 Speaker Pair 11 Tip - 36 Black/Blue Station 6 Speaker Pair 12 Tip - 37 Black/Orange Station 6 Call Switch A Ring - 11 Blue/Black Station 6 Call Switch A Pair 13 Tip - 39 Black/Green Station 7 Speaker Pair 14 Tip - 40	Pair 4		
Pair 6			
Pair 6 Tip - 31 Red/Blue Red Ring - 6 Station 3 Call Switch A Ring - 6 Blue/Red Station 3 Call Switch B Pair 7 Tip - 32 Red/Orange Station 4 Speaker Ring - 7 Orange/Red Station 4 Speaker Pair 8 Tip - 33 Red/Green Station 4 Call Switch A Ring - 8 Pair 9 Tip - 34 Red/Brown Station 5 Speaker Pair 10 Ring - 9 Brown/Red Station 5 Speaker Pair 10 Tip - 35 Red/Slate Station 5 Speaker Pair 11 Tip - 36 Black/Blue Station 5 Call Switch A Ring - 10 Slate/Red Station 6 Speaker Pair 12 Tip - 36 Black/Blue Station 6 Speaker Pair 12 Tip - 36 Black/Plack Station 6 Speaker Pair 12 Tip - 37 Black/Orange Station 6 Call Switch A Station 6 Speaker Pair 13 Tip - 38 Black/Orange Station 6 Call Switch A Station 7 Speaker Pair 14 Tip - 39 Black/Brown Station 7 Speaker Pair 14 Tip - 39 Black/Brown Station 7 Call Switch A Station 7 Speaker Pair 15 Tip - 40 Black/Black Station 7 Call Switch A Station 8 Speaker Pair 16 Tip - 41 Yellow/Bl	Pair 5		
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Pair 8 Ring – 7 Orange/Red Station 4 Speaker Pair 8 Tip – 33 Red/Green Station 4 Call Switch A Ring – 8 Green/Red Station 5 Call Switch B Pair 9 Tip – 34 Red/Brown Station 5 Speaker Ring – 9 Brown/Red Station 5 Call Switch A Ring – 10 Slate/Red Station 5 Call Switch B Pair 11 Tip – 36 Black/Blue Station 6 Speaker Ring – 11 Blue/Black Station 6 Speaker Pair 12 Tip – 37 Black/Orange Station 6 Call Switch A Ring – 12 Orange/Black Station 6 Call Switch B Pair 13 Tip – 38 Black/Green Station 7 Speaker Ring – 12 Orange/Black Station 7 Speaker Ring – 13 Green/Black Station 7 Call Switch A Ring – 14 Brown/Black Station 7 Call Switch A Ring – 14 Brown/Black Station 7 Call Switch B Pair 15 Tip – 40 Black/Slate Station 7 Call Switch B Pair 16 Tip – 41 <td< td=""><td></td><td></td><td></td></td<>			
Pair 8 Tip − 33 Red/Green Ring − 8 Green/Red Station 4 Call Switch B Ring − 8 Green/Red Station 5 Call Switch B Ring − 9 Brown/Red Station 5 Speaker Pair 9 Tip − 34 Red/Brown Station 5 Speaker Ring − 9 Brown/Red Station 5 Speaker Pair 10 Tip − 35 Red/Slate Station 5 Call Switch A Ring − 10 Slate/Red Station 5 Call Switch B Ring − 11 Blue/Black Station 6 Speaker Pair 11 Tip − 36 Black/Blue Station 6 Speaker Ring − 11 Blue/Black Station 6 Call Switch A Ring − 12 Orange/Black Station 6 Call Switch B Ring − 13 Green/Black Station 7 Speaker Ring − 13 Green/Black Station 7 Speaker Ring − 13 Green/Black Station 7 Speaker Pair 14 Tip − 38 Black/Green Station 7 Speaker Station 7 Speaker Ring − 14 Brown/Black Station 7 Call Switch A Ring − 14 Brown/Black Station 7 Call Switch B Ring − 15 Slate/Black Station 8 Speaker Ring − 15 Slate/Black Station 8 Speaker Ring − 15 Slate/Black Station 8 Speaker Ring − 15 Slate/Black Station 8 Call Switch B Ring − 16 Blue/yellow Station 8 Call Switch B Ring − 17 Orange/Yellow Station 9 Speaker Ring − 17 Orange/Yellow Station 9 Speaker Ring − 17 Orange/Yellow Station 9 Speaker Ring − 18 Green/yellow Station 9 Call Switch B Ring − 19 Brown/Yellow Station 10 Speaker Ring − 19 Brown/Yellow Station 10 Speaker Ring − 20 Slate/Yellow Station 10 Call Switch B Ring − 20 Slate/Yellow Station 10 Call Switch B Ring − 21 Blue/Violet Station 11 Speaker Ring − 22 Orange/Violet Station 11 Call Switch B Ring − 22 Orange/Violet Station 11 Call Switch B Ring − 22 Orange/Violet Station 12 Speaker Ring − 24 Brown/Violet Station 12 Call Switch A Ring − 24 Brown/Violet Station 12 Call Switch A Ring − 24 Brown/Violet Station 12 Call Switch B Ring − 24 Brown/Violet Station 12 Call Switch B Ring − 24 Brown/Violet Station 12 Call Switch B Ring − 24 Brown/Violet Stat	Pair 7		
Ring - 8 Green/Red Station 4 Call Switch B			
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Pair 10 Ring - 9 Brown/Red Station 5 Speaker Pair 10 Tip - 35 Red/Slate Station 5 Call Switch A Ring - 10 Slate/Red Station 5 Call Switch B Pair 11 Tip - 36 Black/Blue Station 6 Speaker Ring - 11 Blue/Black Station 6 Call Switch A Pair 12 Tip - 37 Black/Orange Station 6 Call Switch A Ring - 12 Orange/Black Station 6 Call Switch B Pair 13 Tip - 38 Black/Green Station 7 Speaker Ring - 13 Green/Black Station 7 Speaker Pair 14 Tip - 39 Black/Brown Station 7 Call Switch A Ring - 14 Brown/Black Station 7 Call Switch B Pair 15 Tip - 40 Black/Slate Station 8 Speaker Pair 16 Tip - 41 Yellow/Blue Station 8 Call Switch A Ring - 15 Slate/Black Station 8 Call Switch B Pair 16 Tip - 41 Yellow/Orange Station 9 Speaker Pair 17 Tip - 42 Yellow/Orange Station 9 Call Switch A </td <td></td> <td></td> <td></td>			
Pair 10 Tip - 35 Red/Slate Station 5 Call Switch A Ring - 10 Slate/Red Station 5 Call Switch B Pair 11 Tip - 36 Black/Blue Ring - 11 Blue/Black Station 6 Speaker Ring - 12 Drange/Black Station 6 Call Switch A Ring - 12 Orange/Black Station 6 Call Switch B Pair 12 Tip - 37 Black/Orange Station 6 Call Switch A Ring - 12 Orange/Black Station 7 Speaker Ring - 13 Green/Black Station 7 Speaker Ring - 13 Black/Brown Station 7 Speaker Ring - 14 Brown/Black Station 7 Call Switch A Ring - 14 Brown/Black Station 8 Speaker Ring - 15 Slate/Black Station 8 Speaker Ring - 15 Slate/Black Station 8 Speaker Ring - 15 Slate/Black Station 8 Call Switch A Ring - 16 Blue/yellow Station 8 Call Switch A Ring - 16 Blue/yellow Station 9 Speaker Ring - 17 Orange/Yellow Station 9 Speaker Ring - 17 Orange/Yellow Station 9 Call Switch A Ring - 18 Green/yellow Station 9 Call Switch A Ring - 19 Brown/Yellow Station 10 Speaker Ring - 19 Brown/Yellow Station 10 Speaker Ring - 20 Slate/Yellow Station 10 Call Switch B Ring - 21 Blue/Violet Station 11 Speaker Ring - 22 Orange/Violet Station 11 Call Switch B Ring - 22 Orange/Violet Station 11 Call Switch B Ring - 23 Green/Violet Station 12 Speaker Ring - 24 Violet/Green Station 12 Speaker Ring - 24 Srown/Violet Station 12 Call Switch A Ring - 24 Brown/Violet Station 12 Call Switch A Ring - 24 Brown/Violet Station 12 Call Switch A Ring - 24 Brown/Violet Station 12 Call Switch A Ring - 24 Brown/Violet Station 12 Call Switch A Ring - 24 Brown/Violet Station 12 Call Switch A Ring - 24 Brown/Violet Station 12 Call Switch A Ring - 24 Brown/Violet Station 12 Call Switch A Ring - 24 Brown/Violet Station 12 Call Switch A	Pair 9		
Pair 10			
Pair 11 Tip - 36 Black/Blue Station 6 Speaker Pair 12 Tip - 37 Black/Orange Station 6 Call Switch A Pair 12 Tip - 37 Black/Orange Station 6 Call Switch A Pair 13 Tip - 38 Black/Green Station 7 Speaker Ring - 13 Green/Black Station 7 Speaker Pair 14 Tip - 39 Black/Brown Station 7 Call Switch A Ring - 14 Brown/Black Station 7 Call Switch B Pair 15 Tip - 40 Black/Slate Station 8 Speaker Ring - 15 Slate/Black Station 8 Speaker Pair 16 Ring - 15 Slate/Black Station 8 Speaker Pair 17 Tip - 41 Yellow/Blue Station 8 Call Switch A Ring - 16 Blue/yellow Station 9 Speaker Pair 17 Tip - 42 Yellow/Orange Station 9 Speaker Pair 18 Tip - 43 Yellow/Green Station 9 Call Switch A Ring - 18 Green/yellow Station 10 Speaker Pair 19 Tip - 44 Yellow/Brown Station 1	Pair 10		
Ring - 11 Blue/Black Station 6 Speaker			
Pair 12 Tip - 37 Black/Orange Station 6 Call Switch A Ring - 12 Orange/Black Station 6 Call Switch B Pair 13 Tip - 38 Black/Green Station 7 Speaker Ring - 13 Green/Black Station 7 Speaker Pair 14 Tip - 39 Black/Brown Station 7 Call Switch A Ring - 14 Brown/Black Station 7 Call Switch B Pair 15 Tip - 40 Black/Slate Station 8 Speaker Ring - 15 Slate/Black Station 8 Speaker Pair 16 Tip - 41 Yellow/Blue Station 8 Call Switch A Ring - 16 Blue/yellow Station 8 Call Switch B Pair 17 Tip - 42 Yellow/Orange Station 9 Call Switch B Pair 18 Tip - 42 Yellow/Orange Station 9 Speaker Pair 19 Tip - 43 Yellow/Green Station 9 Call Switch A Ring - 18 Green/yellow Station 10 Speaker Pair 20 Tip - 44 Yellow/Srown Station 10 Speaker Pair 21 Tip - 45 Yellow/Srown Station 10 Call S	Pair 11	TIP – 36 Black/Blue	
Pair 12 Ring – 12 Orange/Black Station 6 Call Switch B Pair 13 Tip – 38 Black/Green Station 7 Speaker Ring – 13 Green/Black Station 7 Call Switch A Ring – 14 Brown/Black Station 7 Call Switch B Pair 15 Tip – 40 Black/Slate Station 8 Speaker Ring – 15 Slate/Black Station 8 Call Switch A Ring – 15 Slate/Black Station 8 Call Switch A Ring – 16 Blue/yellow Station 8 Call Switch A Ring – 16 Blue/yellow Station 9 Speaker Pair 17 Tip – 42 Yellow/Orange Station 9 Speaker Pair 18 Tip – 42 Yellow/Orange Station 9 Call Switch A Ring – 17 Orange/Yellow Station 9 Call Switch A Ring – 18 Green/yellow Station 10 Speaker Pair 19 Tip – 44 Yellow/Brown Station 10 Speaker Pair 20 Tip – 45 Yellow/Slate Station 10 Call Switch A Ring – 20 Slate/Yellow Station 11 Call Switch B Pair 21 Tip – 46 Violet/Blue Station 11 Call Switch A Ring – 22 Orange/Violet			
Pair 13	Pair 12		
Pair 13 Ring – 13 Green/Black Station 7 Speaker Pair 14 Tip – 39 Black/Brown Station 7 Call Switch A Ring – 14 Brown/Black Station 8 Speaker Pair 15 Tip – 40 Black/Slate Station 8 Speaker Ring – 15 Slate/Black Station 8 Call Switch A Pair 16 Ring – 16 Blue/yellow Station 8 Call Switch A Ring – 16 Blue/yellow Station 9 Speaker Pair 17 Tip – 42 Yellow/Orange Station 9 Speaker Ring – 17 Orange/Yellow Station 9 Speaker Pair 18 Tip – 43 Yellow/Green Station 9 Call Switch A Ring – 18 Green/yellow Station 10 Speaker Pair 19 Tip – 44 Yellow/Brown Station 10 Speaker Pair 20 Tip – 45 Yellow/Slate Station 10 Call Switch A Ring – 19 Brown/Yellow Station 10 Call Switch B Pair 21 Tip – 45 Yellow/Slate Station 10 Call Switch B Pair 21 Tip – 46 Violet/Blue Station 11 Speaker Pair 22 Tip – 47 Violet/Orange Station 11 Call Switch B Pair 23 Tip – 48 Violet/Green Station 12 Speaker			
Pair 14	Pair 13		
Pair 14 Ring – 14 Brown/Black Station 7 Call Switch B Pair 15 Tip – 40 Black/Slate Station 8 Speaker Ring – 15 Slate/Black Station 8 Call Switch A Pair 16 Tip – 41 Yellow/Blue Station 8 Call Switch A Ring – 16 Blue/yellow Station 9 Call Switch B Pair 17 Tip – 42 Yellow/Orange Station 9 Speaker Ring – 17 Orange/Yellow Station 9 Call Switch A Ring – 18 Green/yellow Station 9 Call Switch B Pair 19 Tip – 44 Yellow/Brown Station 10 Speaker Ring – 19 Brown/Yellow Station 10 Speaker Pair 20 Tip – 45 Yellow/Slate Station 10 Call Switch A Ring – 20 Slate/Yellow Station 10 Call Switch B Pair 21 Tip – 46 Violet/Blue Station 11 Speaker Pair 22 Tip – 47 Violet/Orange Station 11 Call Switch A Ring – 22 Orange/Violet Station 12 Speaker Pair 23 Tip – 48 Violet/Green Station 12 Call Switch A<			
Pair 15	Pair 14		
Pair 15			
Pair 16	Pair 15		
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Pair 17 Tip - 42 Yellow/Orange Station 9 Speaker Ring - 17 Orange/Yellow Station 9 Speaker Station 9 Call Switch A Ring - 18 Green/yellow Station 9 Call Switch B Ring - 18 Green/yellow Station 9 Call Switch B Station 9 Call Switch B Station 10 Speaker Ring - 19 Brown/Yellow Station 10 Speaker Ring - 19 Brown/Yellow Station 10 Call Switch A Ring - 20 Slate/Yellow Station 10 Call Switch B Ring - 20 Slate/Yellow Station 10 Call Switch B Ring - 21 Blue/Violet Station 11 Speaker Ring - 21 Blue/Violet Station 11 Speaker Ring - 22 Orange/Violet Station 11 Call Switch B Ring - 22 Orange/Violet Station 11 Call Switch B Ring - 23 Green/Violet Station 12 Speaker Ring - 23 Green/Violet Station 12 Speaker Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Station 12 Call Switch B Ring - 24 Brown/Violet Ring - 24 Brown/Violet	Pair 16		
Pair 18 Ring – 17 Orange/Yellow Station 9 Speaker Pair 18 Tip – 43 Yellow/Green Station 9 Call Switch A Ring – 18 Green/yellow Station 9 Call Switch B Pair 19 Tip – 44 Yellow/Brown Station 10 Speaker Ring – 19 Brown/Yellow Station 10 Call Switch A Pair 20 Ring – 20 Slate/Yellow Station 10 Call Switch B Pair 21 Tip – 46 Violet/Blue Station 11 Speaker Ring – 21 Blue/Violet Station 11 Speaker Pair 22 Tip – 47 Violet/Orange Station 11 Call Switch A Ring – 22 Orange/Violet Station 11 Call Switch B Pair 23 Tip – 48 Violet/Green Station 12 Speaker Ring – 23 Green/Violet Station 12 Speaker Pair 24 Tip – 49 Violet/Brown Station 12 Call Switch A Ring – 24 Brown/Violet Station 12 Call Switch B			
Pair 18	Pair 17		
Pair 19 Ring – 18 Green/yellow Station 9 Call Switch B Pair 19 Tip – 44 Yellow/Brown Station 10 Speaker Ring – 19 Brown/Yellow Station 10 Call Switch A Pair 20 Tip – 45 Yellow/Slate Station 10 Call Switch A Ring – 20 Slate/Yellow Station 10 Call Switch B Pair 21 Tip – 46 Violet/Blue Station 11 Speaker Ring – 21 Blue/Violet Station 11 Speaker Pair 22 Tip – 47 Violet/Orange Station 11 Call Switch A Ring – 22 Orange/Violet Station 11 Call Switch B Pair 23 Tip – 48 Violet/Green Station 12 Speaker Ring – 23 Green/Violet Station 12 Call Switch A Ring – 24 Brown/Violet Station 12 Call Switch B Pair 24 Tip – 50 Violet/Slate			
Pair 19	Pair 18		
Pair 19 Ring – 19 Brown/Yellow Station 10 Speaker Pair 20 Tip – 45 Yellow/Slate Station 10 Call Switch A Ring – 20 Slate/Yellow Station 10 Call Switch B Pair 21 Tip – 46 Violet/Blue Station 11 Speaker Ring – 21 Blue/Violet Station 11 Speaker Pair 22 Tip – 47 Violet/Orange Station 11 Call Switch A Pair 23 Tip – 48 Violet/Green Station 12 Speaker Ring – 23 Green/Violet Station 12 Speaker Pair 24 Tip – 49 Violet/Brown Station 12 Call Switch A Ring – 24 Brown/Violet Station 12 Call Switch B	1 411 10		
Pair 20	Pair 19		
Pair 20 Ring – 20 Slate/Yellow Station 10 Call Switch B Pair 21 Tip – 46 Violet/Blue Station 11 Speaker Ring – 21 Blue/Violet Station 11 Speaker Pair 22 Tip – 47 Violet/Orange Station 11 Call Switch A Ring – 22 Orange/Violet Station 11 Call Switch B Pair 23 Tip – 48 Violet/Green Station 12 Speaker Ring – 23 Green/Violet Station 12 Call Switch A Pair 24 Tip – 49 Violet/Brown Station 12 Call Switch B Pair 25 Tip – 50 Violet/Slate	1 411 10		
Pair 21	Pair 20		
Pair 21 Ring – 21 Blue/Violet Station 11 Speaker Pair 22 Tip – 47 Violet/Orange Station 11 Call Switch A Ring – 22 Orange/Violet Station 11 Call Switch B Pair 23 Tip – 48 Violet/Green Station 12 Speaker Ring – 23 Green/Violet Station 12 Speaker Pair 24 Tip – 49 Violet/Brown Station 12 Call Switch A Ring – 24 Brown/Violet Station 12 Call Switch B Pair 35 Tip – 50 Violet/Slate	1 411 20		
Pair 22 Tip - 47 Violet/Orange Station 11 Speaker	Pair 21		Station 11 Speaker
Pair 22 Ring – 22 Orange/Violet Station 11 Call Switch B Pair 23 Tip – 48 Violet/Green Station 12 Speaker Ring – 23 Green/Violet Station 12 Speaker Pair 24 Tip – 49 Violet/Brown Station 12 Call Switch A Ring – 24 Brown/Violet Station 12 Call Switch B Tip – 50 Violet/Slate			
Pair 23 Tip - 48 Violet/Green Station 12 Speaker	Pair 22		
Ring - 23 Green/Violet Station 12 Speaker	I all ZZ		
Pair 24 Pair 24 Tip – 49 Violet/Brown Station 12 Speaker Ring – 24 Brown/Violet Station 12 Call Switch B Tip – 50 Violet/Slate	Pair 22		Station 12 Speaker
Pair 24 Tip – 49 Violet/Brown Station 12 Call Switch A Ring – 24 Brown/Violet Station 12 Call Switch B Tip – 50 Violet/Slate	i ali 23	Ring – 23 Green/Violet	
Ring – 24 Brown/Violet Station 12 Call Switch B Pair 25 Tip – 50 Violet/Slate	Pair 24	Tip – 49 Violet/Brown	Station 12 Call Switch A
Poir 25 Tip – 50 Violet/Slate	Fall 24		Station 12 Call Switch B
Ring – 25 Slate/Violet	Dair 25	Tip – 50 Violet/Slate	
	Pair 25	Ring – 25 Slate/Violet	

25-Volt Talkback Station Card P2 Amphenol Connector

	Ti 00 W/hit-/Dh	04-4: 40 0
Pair 1	Tip – 26 White/Blue	Station 13 Speaker
	Ring – 1 Blue/White	Station 13 Speaker
Pair 2	Tip – 27 White/Orange	Station 13 Call Switch A
	Ring – 2 Orange/White	Station 13 Call Switch B
Pair 3	Tip – 28 White/Green	Station 14 Speaker
	Ring – 3 Green/White	Station 14 Speaker
Pair 4	Tip – 29 White/Brown	Station 14 Call Switch A
	Ring - 4 Brown/White	Station 14 Call Switch B
Pair 5	Tip - 30 White/Slate	Station 15 Speaker
i ali o	Ring – 5 Slate/White	Station 15 Speaker
Pair 6	Tip – 31 Red/Blue	Station 15 Call Switch A
T all 0	Ring – 6 Blue/Red	Station 15 Call Switch B
Pair 7	Tip – 32 Red/Orange	Station 16 Speaker
rall 1	Ring – 7 Orange/Red	Station 16 Speaker
Doir 0	Tip – 33 Red/Green	Station 16 Call Switch A
Pair 8	Ring – 8 Green/Red	Station 16 Call Switch B
Dei: 0	Tip – 34 Red/Brown	Station 17 Speaker
Pair 9	Ring – 9 Brown/Red	Station 17 Speaker
-	Tip – 35 Red/Slate	Station 17 Call Switch A
Pair 10	Ring – 10 Slate/Red	Station 17 Call Switch B
	Tip – 36 Black/Blue	Station 18 Speaker
Pair 11	Ring – 11 Blue/Black	Station 18 Speaker
	Tip – 37 Black/Orange	Station 18 Call Switch A
Pair 12	Ring – 12 Orange/Black	Station 18 Call Switch B
	Tip – 38 Black/Green	Station 19 Speaker
Pair 13	Ring – 13 Green/Black	Station 19 Speaker
	Tip – 39 Black/Brown	Station 19 Call Switch A
Pair 14	Ring – 14 Brown/Black	Station 19 Call Switch B
	Tip – 40 Black/Slate	Station 20 Speaker
Pair 15	Ring – 15 Slate/Black	Station 20 Speaker
		Station 20 Call Switch A
Pair 16		
	Ring – 16 Blue/yellow	Station 20 Call Switch B
Pair 17	Tip – 42 Yellow/Orange	Station 21 Speaker
	Ring – 17 Orange/Yellow	Station 21 Speaker
Pair 18	Tip – 43 Yellow/Green	Station 21 Call Switch A
	Ring – 18 Green/yellow	Station 21 Call Switch B
Pair 19	Tip – 44 Yellow/Brown	Station 22 Speaker
	Ring – 19 Brown/Yellow	Station 22 Speaker
Pair 20	Tip – 45 Yellow/Slate	Station 22 Call Switch A
	Ring – 20 Slate/Yellow	Station 22 Call Switch B
Pair 21	Tip – 46 Violet/Blue	Station 23 Speaker
	Ring – 21 Blue/Violet	Station 23 Speaker
Pair 22	Tip – 47 Violet/Orange	Station 23 Call Switch A
I UII ZZ	Ring – 22 Orange/Violet	Station 23 Call Switch B
Pair 23	Tip – 48 Violet/Green	Station 24 Speaker
ı alı Zə	Ring – 23 Green/Violet	Station 24 Speaker
Doi: 24	Tip – 49 Violet/Brown	Station 24 Call Switch A
Pair 24	Ring – 24 Brown/Violet	Station 24 Call Switch B
Dei: 05	Tip – 50 Violet/Slate	
Pair 25	Ring – 25 Slate/Violet	
		1



Supplied Speaker/Call Button I/O Interface.

Port 1 = Station 1 or 13 . . . Port 12 = Station 12 or 24

Expansion Cabinets

The ACS Expansion Cabinets provide support for 24 or 48 *additional* talkback stations. They are self-contained units and are intended to be mounted directly beneath the V-ACS main cabinet.

The ACS Expansion Cabinets include speaker connection blocks, a power supply and an extended ribbon cable for connecting to the main cabinet.

To facilitate installing the extended ribbon cable, the power supply in the main cabinet is easily removed thus allowing ribbon cable replacement.

Contact us for information on systems larger than 72 stations.

One Way Speaker Circuits

When connecting V-ACS speaker circuits to the line level input(s) of Valcom self-amplified speakers/horns or to the line level input of an old-fashioned central amplifier, a suitable attenuator will be required between the speaker circuit output and the line level input.

Suggested Attenuators:

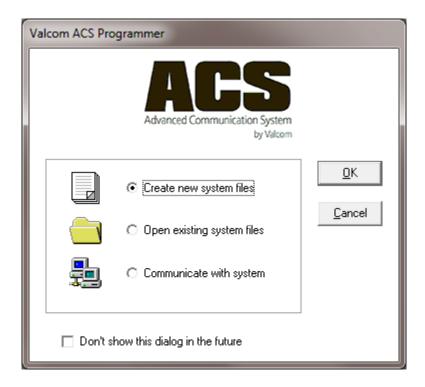
For V-ACS 45-Ohm Systems use a V-LPT One Way Paging Adapter

For 25-Volt Systems use a **V-1095 70 Volt Paging Expander** (used for expanding 25, 70.7 and 100-volt speaker circuits)

Re-using V-2924A Expandable Talkback Intercom speakers and wiring

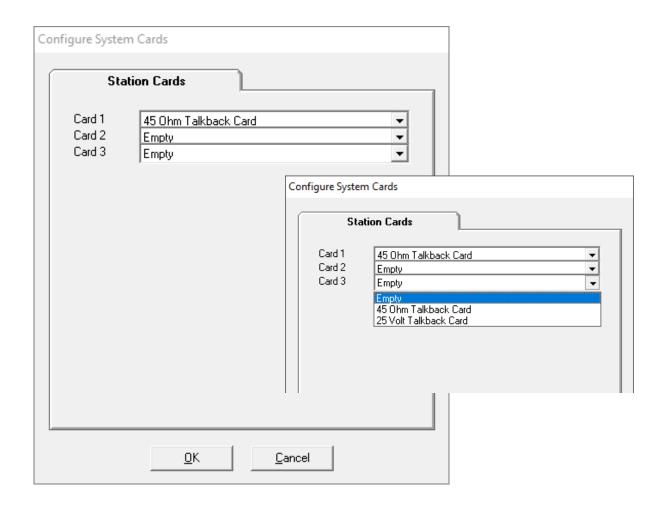
The Amphenol pinout and audio output of a V-ACS Advanced Communication System varies from that of a V-2924 Expandable Talkback Intercom. A 24-station adapter is available (one per 24 stations) as part number **V-CA2924**.

System Programming

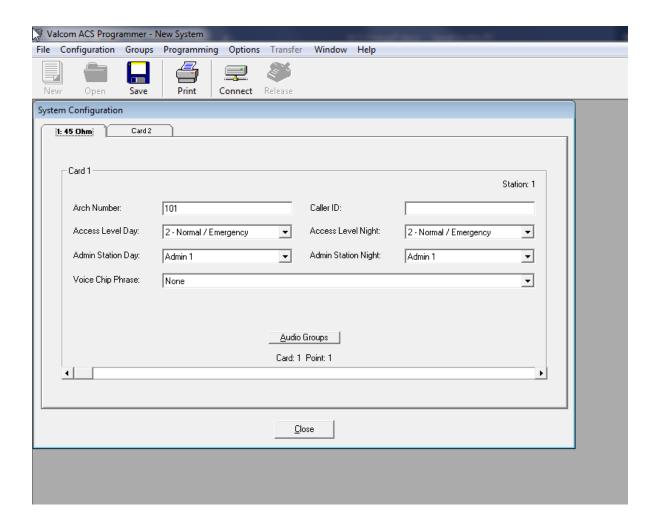


System programming is accomplished with the Valcom ACS Programmer available at www.Valcom.com/acs. The startup screen shown above allows users to:

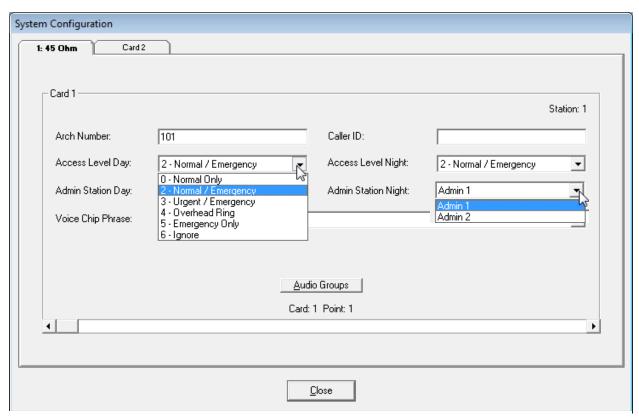
- a) Create New System Files (for new systems)
- b) Open Existing System Files (to make changes)
- c) Communicate with System (to receive or send files to the system or make real time changes where applicable. The transfer menu is not accessible until communications have been established.)



When creating new system files, users are prompted to identify if their system uses 45-ohm or 25-Volt speakers. Cards 2 and 3 will only be available if the corresponding system expansion cabinet is being utilized.



Each talkback station card offers 24 speaker connections and 24 corresponding call button inputs. Users may call any speaker output by its uniquely assigned numeric Architectural (Arch) Number. Speaker outputs may be also added into any of the system's 24 one-way audio groups for common one-way announcements.



Call buttons may be programmed for different functionality at 2 different user defined times of the day. This is referred to as "Day Mode" and "Night Mode". The buttons may be programmed to call either Admin Station (phone) and may exhibit one class of service during each time period. Classes of service include:

Normal Only – The button will only generate a Normal Level Call

Normal/Emergency – Pressing the button one time will generate a Normal Level Call. Pressing it 4 times within 3 seconds will upgrade a Normal Level Call to, or generate a new, Emergency Level Call.

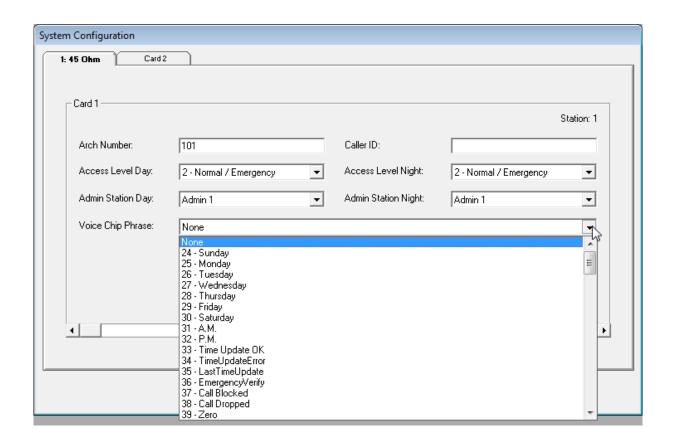
Urgent/Emergency – Pressing the button one time will generate an Urgent Level Call. Pressing it 4 times within 3 seconds will upgrade an Urgent Level Call to, or generate a new, Emergency Level Call.

Overhead Ring – The button will ring both Admin 1 and Admin 2, will ring over all speakers. The call may be answered from either Admin phone

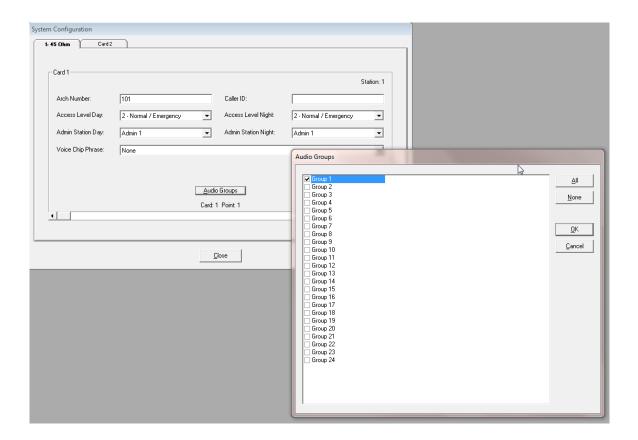
Emergency Only - The button will only generate an Emergency Level Call

Ignore - Call button presses are ignored

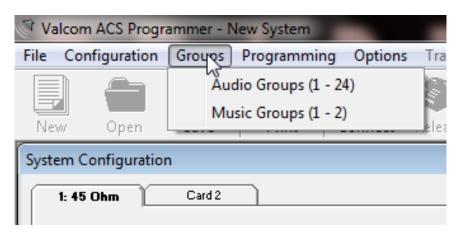
For queued calls, Emergency Level calls are answered before Urgent Level calls which are answered before Normal Level Calls. In addition, Emergency Level Calls ring until answered. Normal and Urgent Level calls follow a definable queue timeout parameter.



The ACS system features the advanced capability of adding custom audio files (Voice Chip Phrases) that be used in a variety of ways. These phrases may be added to individual stations such that, when the station's call button is pressed and the resulting ringing admin phone is answered, the phrase will be broadcast to the answering party prior to the talkback connection.

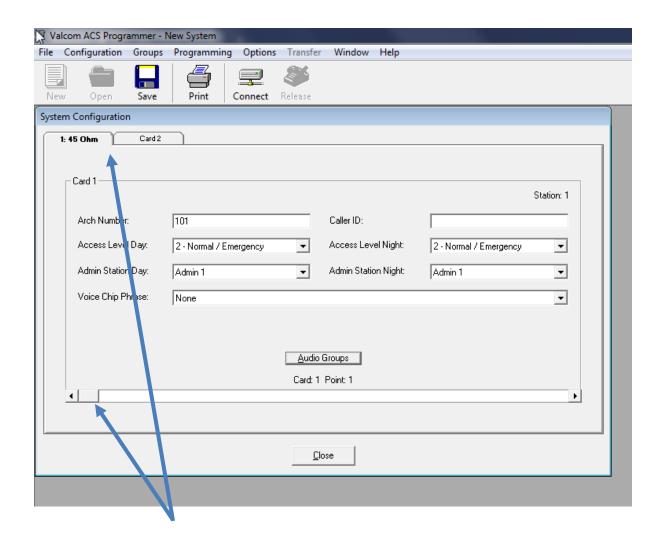


Individual stations may be added to any or all the 24 system audio groups. This may be accomplished on each station's tab (as shown) or via the Groups menu dropdown:

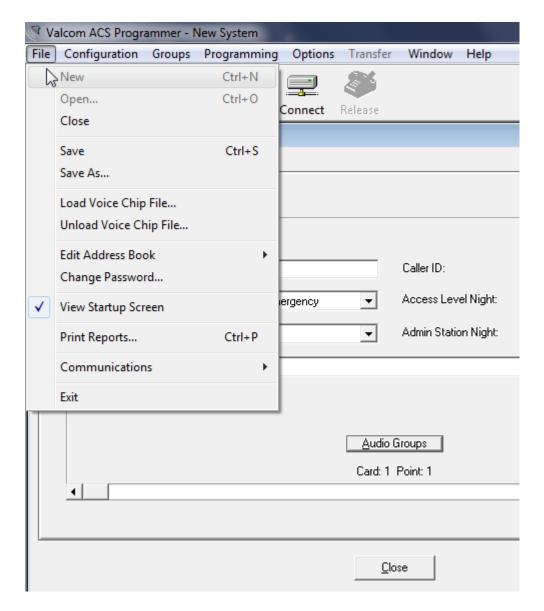


Note that All Call and Emergency All Call are fixed groups that statically include all stations and cannot be modified.

Music Groups are used exclusively for Aux audio distribution via the Administrative Software Tool.

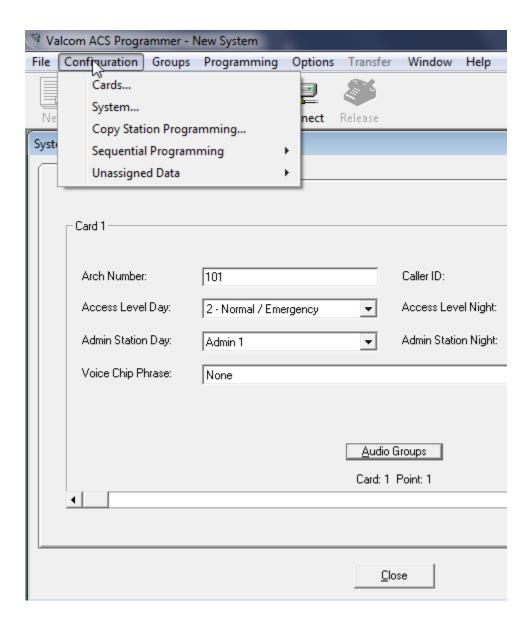


Navigating between stations may be accomplished via the Card tabs using the scroll bar on the card tabs and the Page Up/Page keys on a PC keyboard.



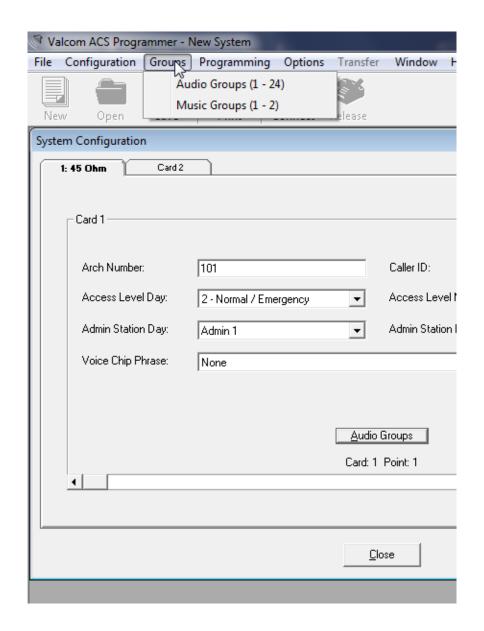
The File menu allows users to create a NEW system configuration program, OPEN a saved system configuration folder, CLOSE the current system configuration (same as EXIT), SAVE the currently loaded system configuration to the most recent saved configuration folder, SAVE the currently loaded system configuration AS a new system configuration folder,

EDIT the address book of network connection settings, CHANGE the password of the Valcom ACS Programmer (default = no password), enable/disable the startup connection screen, print various system reports, establish network COMMUNICATIONS for connecting to a system for programming changes or to view SMDR.

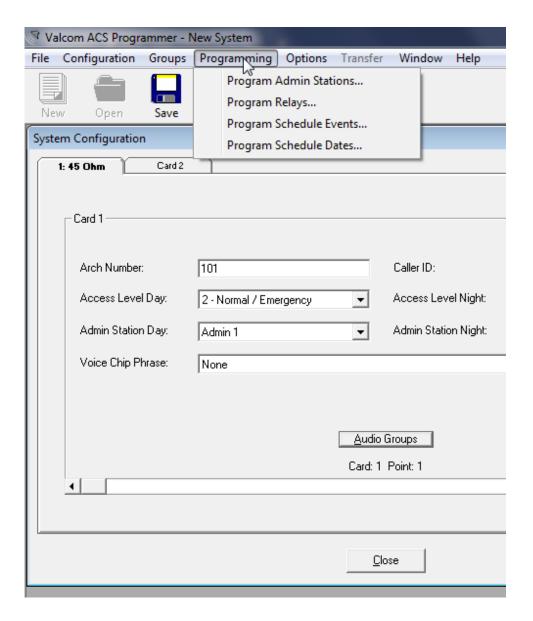


The Configuration menu allows users to:

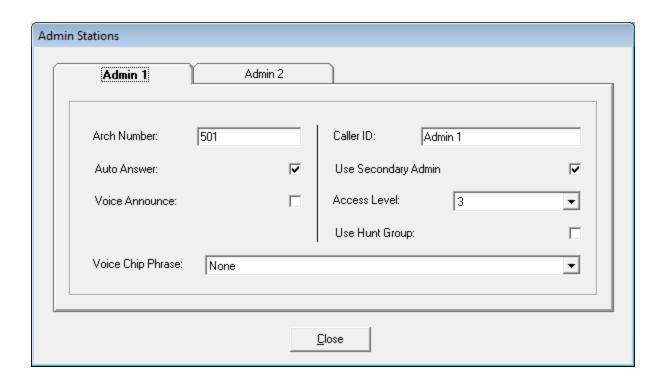
- a) access the Cards form to add and remove station cards
- b) access the System form to program individual stations
- c) copy station programming between one or more stations
- d) sequentially assign Arch numbers to one or more ranges of stations
- e) find stations that have no Arch number



The Groups menu allows user to create and edit audio groups, accessed through fixed dial codes, and music groups, used for distributing music and controlled through the Valcom ACS Administrator Software.

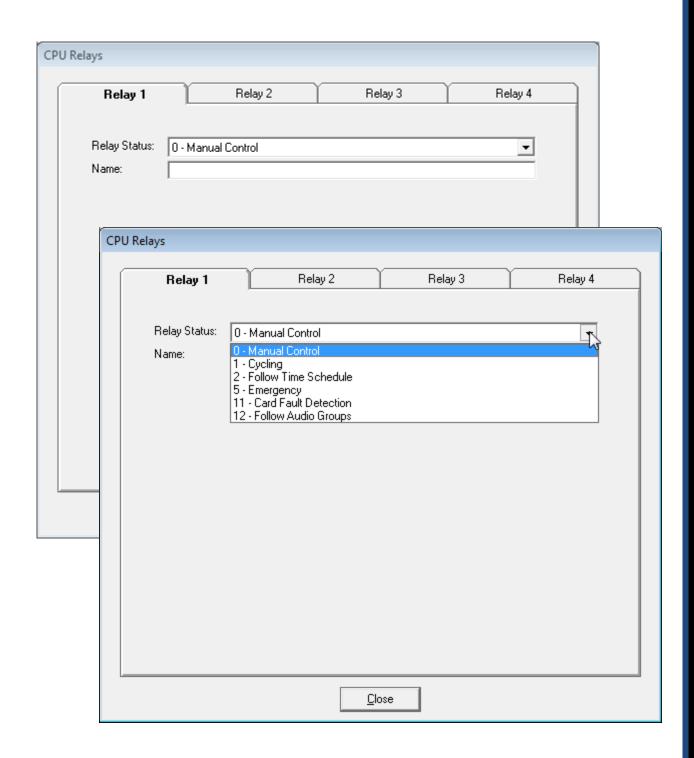


The Programming menu allows users to program Admin Stations (where telephones or phone system FXO, loop start trunk port or C.O. line ports connect), relays, Schedule Events and Schedule Dates.

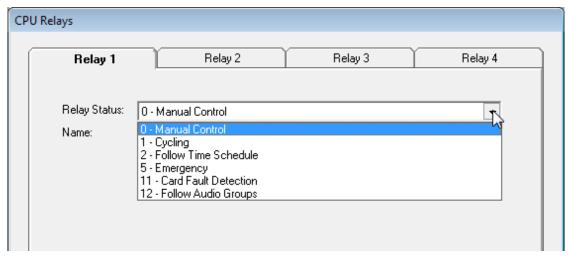


The 2 system Admin ports must be assigned numeric Arch numbers of up to 4 digits and Caller ID info (up to 15 characters) to facilitate admin phone to admin phone calls. "Auto Answer" and "Use Secondary Admin" should always be selected and "Voice Announce" should only be selected if audible caller ID announcement is desired (not common). Enable "Use Hunt Group" to allow call button invoked calls to automatically ring the second admin phone if the primary admin phone is in use. Level 3 access is the typical setting and allows admin stations to perform all necessary system tasks. For information on advanced options, refer to the Office Phone Dialing Plan section of this manual.

The ACS system features the advanced capability of adding custom audio files (Voice Chip Phrases) that that be used in a variety of ways. These phrases may be added to individual admin stations such that, when the station is called from the second station and the resulting ringing admin station is answered, the phrase will be broadcast to the calling party prior to the talkback connection.



Refer to the following page for information on Relay Programming.

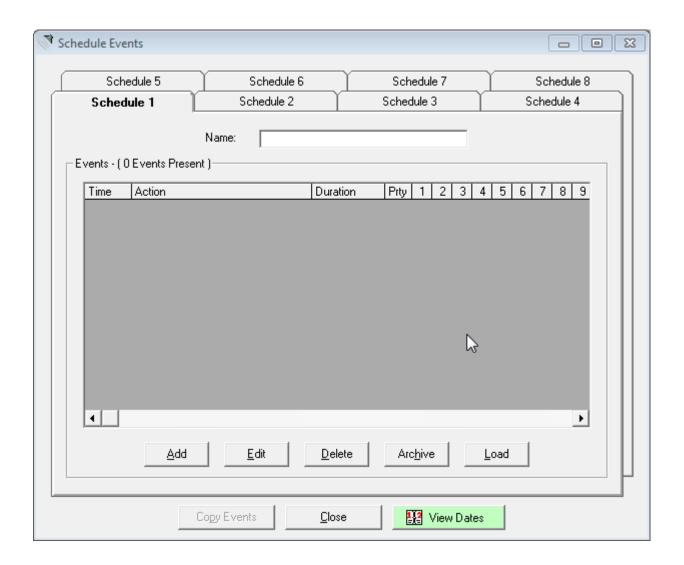


The 4 ACS relays may be programmed:

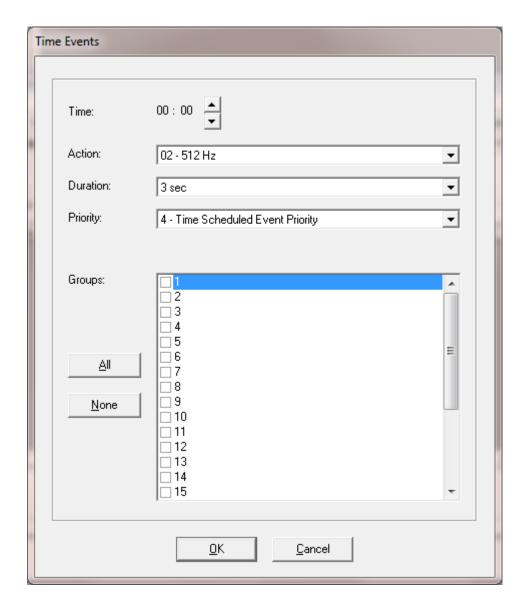
- A) Manual control only This is the default setting. The relays can always be manually controlled from the ACS Administrator Software Tool or via dial codes (level 2 or 3 admin access level required).
- B) Cycling Relays may be programmed to cycle off and on during a specified time period and with a specified cadence. This operation may be limited to certain days of the week.
- C) Follow Time Schedule Relays may be programmed to close and open following the events in any specified time schedule.
- D) Emergency -Relays may be programmed to close whenever a call button initiated emergency call has escalated to announce the calling room number over a group (Options/Emergency).
- E) Card Fault Detection Relays may be programmed to close when one of the station cards is no longer detected and card fault detection is enabled in the ACS Administrator Software Tool.
- F) Follow Audio Groups Relays may be programmed to close for the duration of Events, Normal Announcements and/or Emergency Announcements to any or all Audio groups. This is programmed by clicking in a matrix.

In the example of the matrix shown below, the selected relay will close following the duration of scheduled audio to group 1 *and* following the duration of any Normal page connection to group 3.

Group	Schedule Event	Normal Page	Emergency Page 🔺
All Call			
1	•		
2			
3		•	

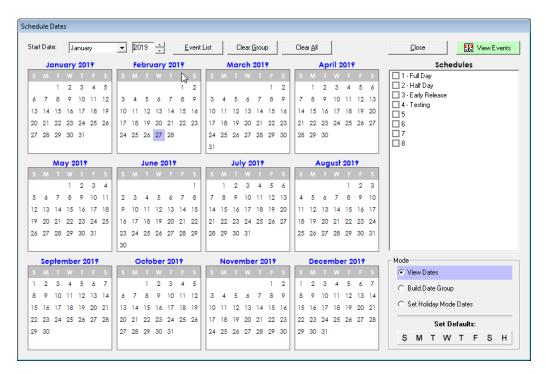


Up to 8 schedules may be named and defined in the ACS system at any time. An unlimited number of schedules may be archived as files and loaded into the system as required. Any combination of the 8 schedules may be selected to run on any given day. Operation of these 8 schedules may be automated based upon a calendar date, or a day of the week. Schedules may also be manually initiated to operate for a single day (forced on). All the schedules are programmed the same way. Note that if multiple schedules have events at the same time, the events are invoked in order of schedule number. In other words, the event of the lowest numbered schedule will occur first, and the event of the highest numbered schedule will occur last.



The Add button allows users to add events to schedules. The events may be tones, user loaded audio files, or music directed to one or more audio groups. If the event duration is "continuous", then a second event with a duration of "off" will be required to end the event.

In general, the default priority will be correct. However, the user has the option to modify the priority for special cases.



Once your schedules are defined, you may assign them to calendar dates, days of the week or holidays.

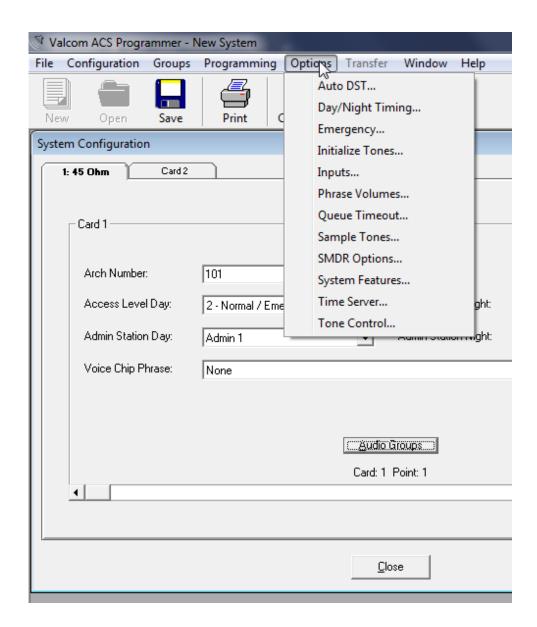
Typically, the first step in this process is to assign default schedules to operate on days of the week (M, T, W, TH, F, S, S) and holidays.

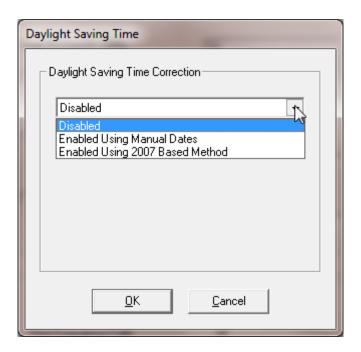
To begin, click a day of the week under "Set Defaults". Then simply click up to 8 schedules to run on that day of the week. *Repeat this step until default schedules are selected for each day of the week.* The default schedules will operate (up to 8 simultaneously) unless automatic schedule operation is disabled, or they are overridden by a calendar date-based schedule. In order to define which schedules will operate on holidays, click "H" under "Set Defaults" and select the desired combination of schedules.

Next, users may assign schedules to dates up to 365 days in the future. In order to assign schedules to specific dates, click "View Dates", click a date from the calendar, choose up to 8 schedules to operate on that date.

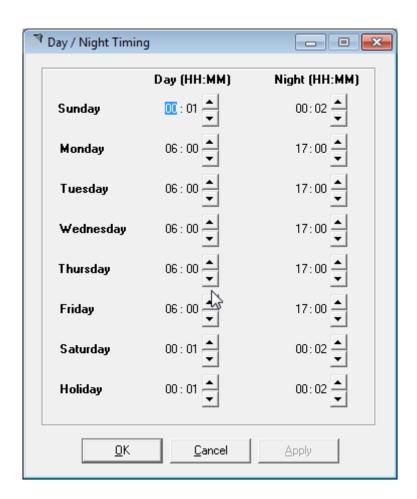
In order to assign the same combination of schedules to multiple dates, click the first date intended to be part of the Date Group and click "Build Date Group", click multiple additional dates from the calendar and choose up to 8 schedules to operate on the selected dates. You may build up to 366 date groups. Click "View Dates" to exit "Build Date Group" mode and between building each date group.

In order to select dates for Holiday Mode operation of cycling ACS CPU relays, Day/Night Timing of Call Switches and other Holiday Mode dependent functions, click "Set Holiday Mode Dates", click multiple holiday dates from the calendar, optionally choose up to 8 schedules to operate on the holiday dates. *Click "View Dates" to exit "Set Holiday Mode Dates" mode.*

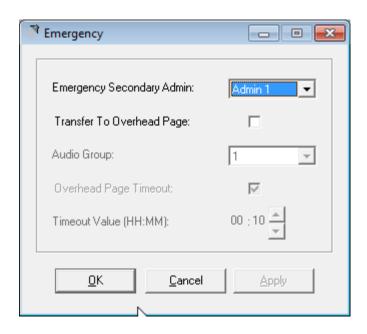




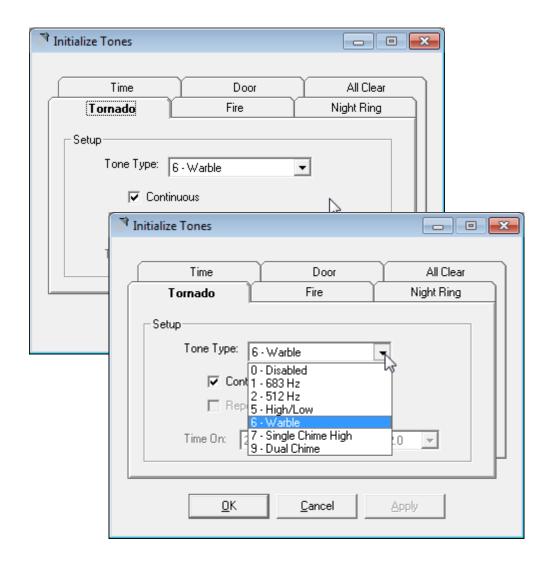
Daylight Saving Time may be automatically invoked via a variety of methods. If time synch is automated via an NTP server, then Daylight Saving Time information will be managed by that NTP server.



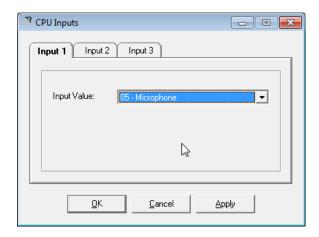
Call button functionality may be programmed to change functionality based upon the time of day or based upon if the day is a user defined holiday (see Calendar). The start of Day mode and Night mode may be defined on a "per day of the week" or "holiday" basis.



Unanswered-call-button-invoked emergency calls will ring until answered. Optionally, Unanswered-call-button-invoked emergency calls may "Transfer To Overhead Page" and speak the Arch number of the calling intercom station over all system speakers. The call may be answered by either Admin phone by answering the phone or dialing the Arch number.



There are references to labelled tones throughout the system. These are invoked by dial codes or CPU switch inputs. These are not user defined WAV files, they are integrated system tones. Users may choose which integrated system tone will be associated with which label and, in some cases, modify the behavior of the tone.



Input Function Choices

Not Used

Activate Fire Tone System-wide

Activate Tornado Tone System-wide

Activate Time Tone System-wide

Activate All Clear Tone System-wide

Activate Microphone Input System-wide

Activate Night Ring Tone System-wide

Activate Door Chime System-wide

Force any schedule ON

Set the system clock to 2 a.m.

Force the system into Crisis Mode*

Force the system into Night Mode**

Force the system into Holiday Mode***

Turn all Aux Inputs Off

Force Aux 1 Input distribution to Music Group 1

Force Aux 2 Input distribution to Music Group 2

Force any audio to play over any audio group at any priority

*Crisis Mode

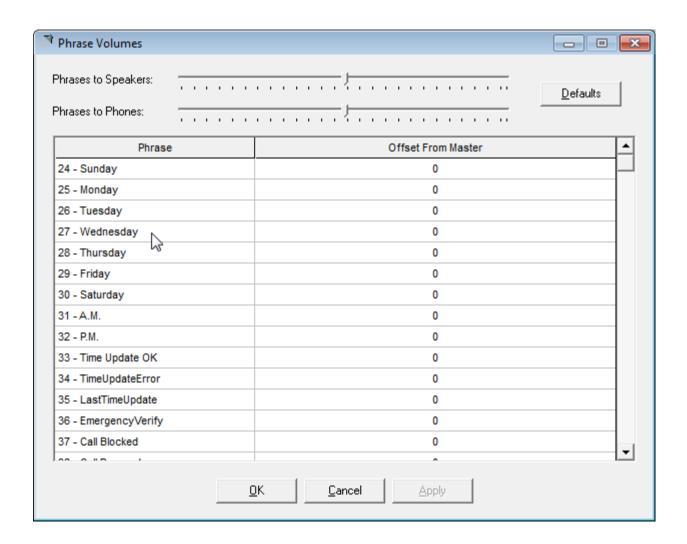
Enabling Crisis COS removes all call button-initiated calls from the call queue and disallows normal level call button-initiated calls until the Crisis COS is disabled. Crisis COS automatically resets at midnight each night if not reset manually.

**Night Mode

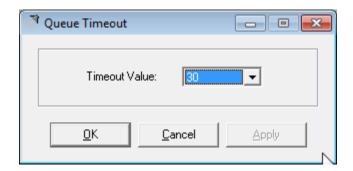
Night Mode forces call buttons to embrace their Night Mode behavior Call button class of service and admin destination)

***Holiday mode

Holiday Modes forces schedules and relays to follow their Holiday Mode behavior as if the system entered Holiday Mode via the Calendar.

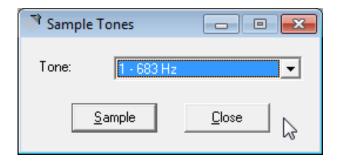


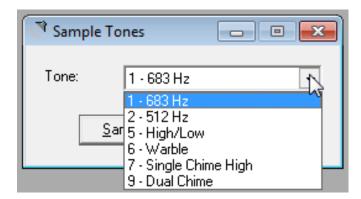
The audio level of most Phrases, or user uploaded WAV files, may be tailored to taste or set to default levels.



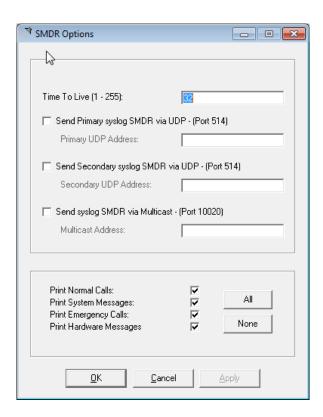
The Queue Timeout is the period (1 to 99 seconds):

- a) after which a call-button-invoked normal level call will time out
- b) after which a call-button-invoked emergency level call will escalate to Transfer to Overhead Page status (if so opted)

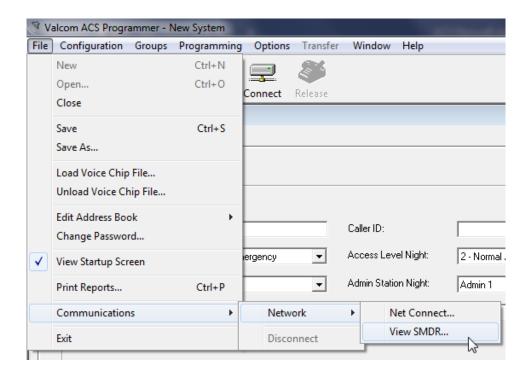


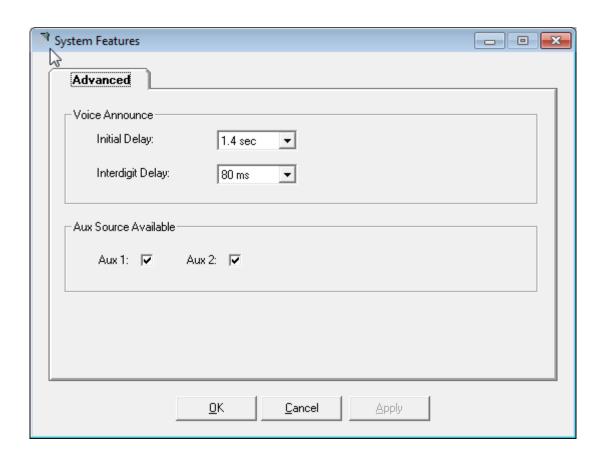


There are references to labelled tones throughout the system. These are invoked by dial codes or CPU switch inputs. These are not user defined WAV files, they are integrated system tones. Assuming that a suitable media program is installed, the Sample Tones menu will play samples of these tones through a PC's speaker.



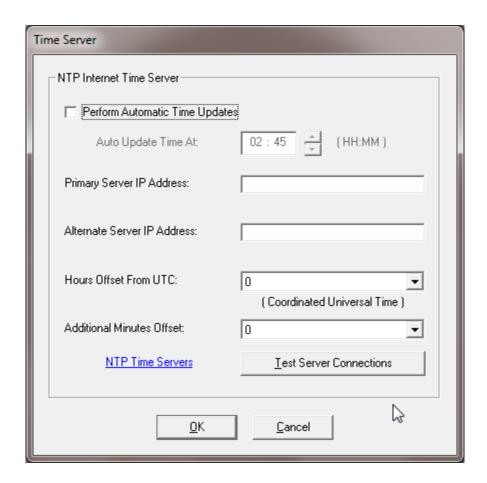
SMDR is System Message Detail Reporting and is a Syslog report of system activity that may be directed to a Syslog server or viewed via the Programming Tool's Syslog viewer on port 514.





System Features allows the user to modify the rate at which the numeric voice generator speaks digits during Voice Announce and Transfer To Overhead Page events.

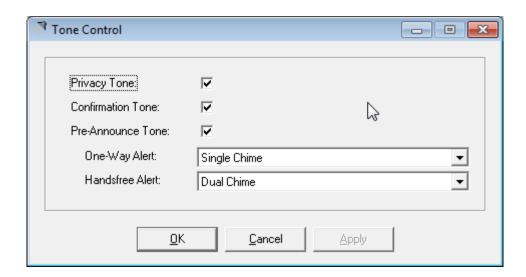
User's may also enable or disable appearance of software-based controls of the Auxiliary inputs to help avoid user confusion in systems that do not include auxiliary background music.



System time and date may be obtained from valid NTP servers on port 123. Check the Perform Automatic Time Updates check box, choose a time of day for the updates to take place and enter the numeric IP address (not a domain name) of a primary and secondary NTP server as well as the time zone offset and any additional offset desired.

The Test Server Connections will force the PC on which the programming tool is installed to attempt to retrieve time.

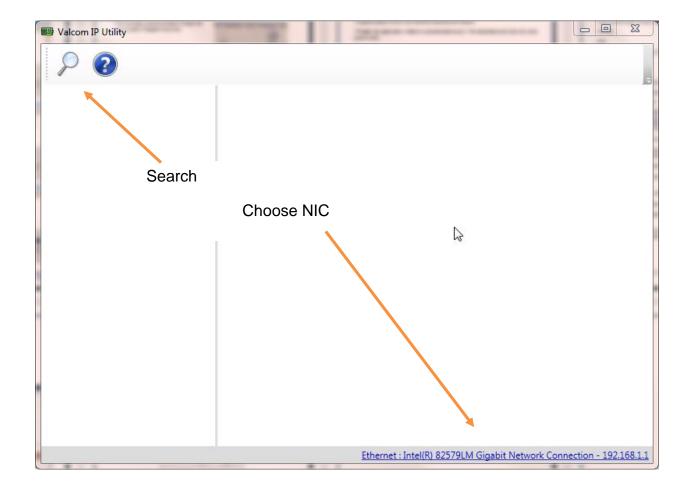
Be aware that even if the test on the PC on which the programming tool is installed is successful, that does not ensure that the ACS actual system will be routable to the NTP server. To test system routing, the Clock icon in the ACS System Administrator may be used to force the ACS to retrieve time from the designated NTP server.



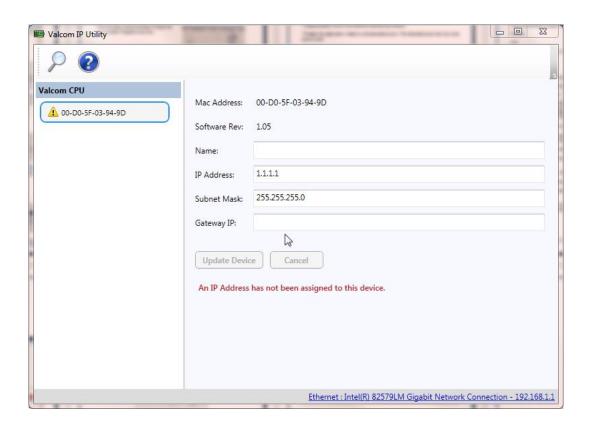
Tone Control allows users to enable or disable:

- a) Privacy tone a tone repeated every 15 seconds through an active talkback intercom speaker to discourage eavesdropping.
- b) Confirmation Tone Speaker tone that verifies that a call button has been pressed
- c) Pre-Announce Tone –attention tone broadcast through a speaker prior to an announcement. This tone may be replaced with any user loaded Phrase (WAV file)

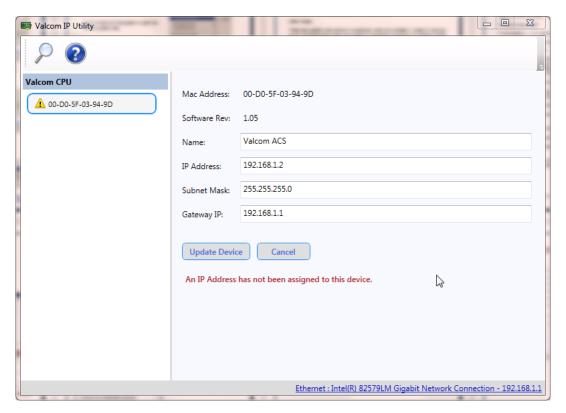
Setting the IP address

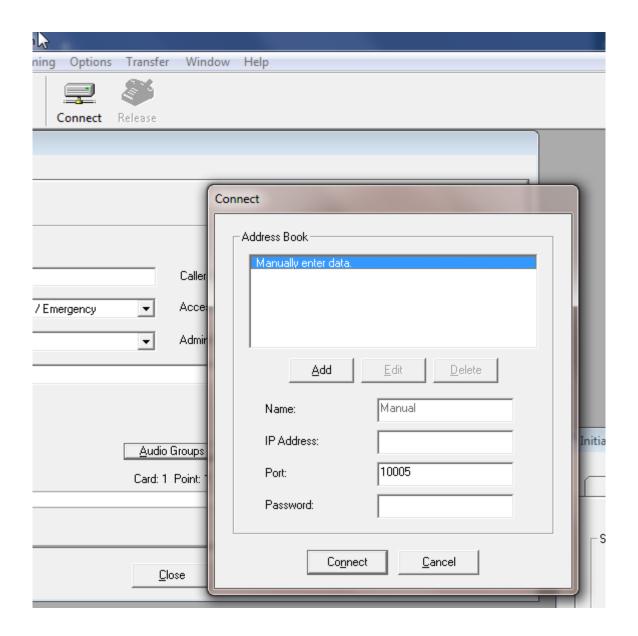


The system IP address is set with the Valcom IP Utility available at www.Valcom.com/acs. Install the Valcom IP Utility, invoke the program, choose the NIC that is being used to communicate with the ACS and click the search magnifying glass.



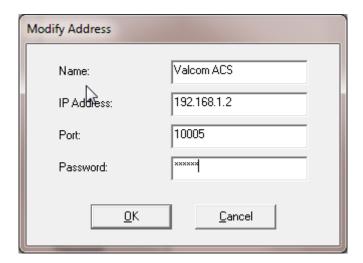
Once the ACS is discovered, enter the desired network credentials and click "Update Device"



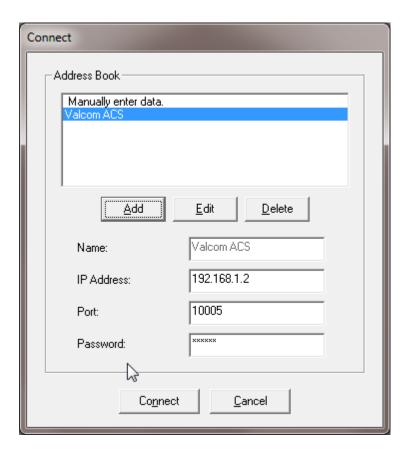


Once the IP address has been assigned, click the "Connect" icon, Click the "Add" button on the Connect form.

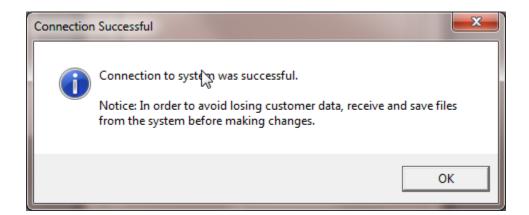


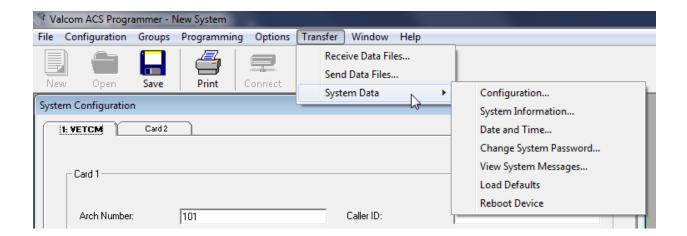


Enter a system name, IP address, port 10005 and the password. The default password is 825266. Click the "OK" button once all entries have been made.

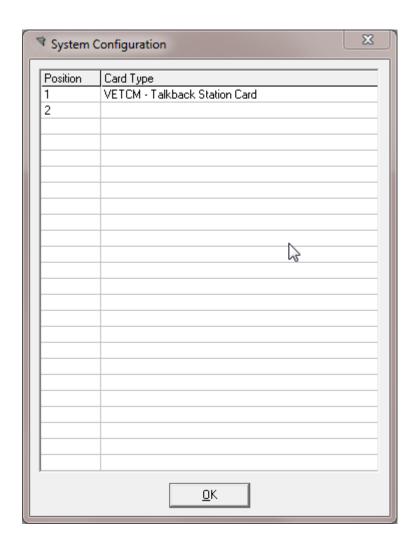


Choose the system name from the Address Book and choose "Connect"

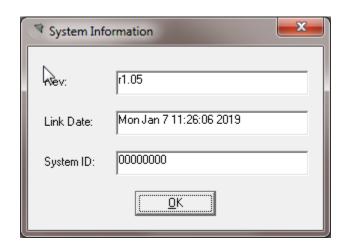


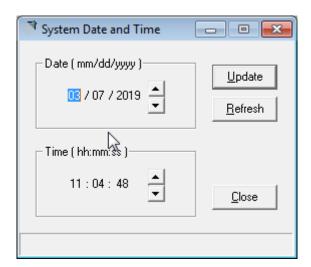


Once connected, the "Transfer" menu becomes available. From here, the currently loaded program files may be sent to the ACS or current ACS programming may be retrieved for backup of modification.

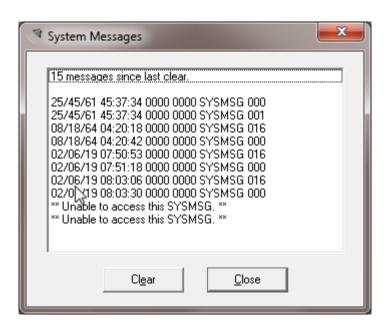


Configuration indicates what cards the ACS system recognizes as part of the current system. System information displays the current system firmware revision.





System Time and Date allows manual time and date adjustment, while System messages shows the first 15 system generated massages since initialization.





The system password (default being 825266) may be modified to another numeric password.

Load defaults sets the ACS back to factory defaults and Reboot reboots the system processor.

Office Phone Dialing Plan

	Access Levels		
	1	2	3
#110 All Call Page	Х	Х	Х
#111134 Page Groups 124	Х	Х	Х
#*111134 Emergency Page Groups		X	Х
#35 Temporary Page Group	Х	Х	Х
Architectural number, #, Architectural number, #, #			
#36 Page to all "Test" rooms only			Х
#40* Enable Automatic Relay Operation		Х	Х
#40# Disable Automatic Relay Operation		X	X
#4148 Control Individual Relays			
* Operate Relay		X	Х
# Release Relay		X	Х
#50* Enable Automatic Time Schedule		Х	Х
#50# Disable Automatic Time Schedule (will not reset at midnight)		X	X
#5158 Time Schedule 18		Х	Х
* Activate Selected Event List		X	Х
# De-activate Selected Event List			
#6162 Program Sources 12			
* ON	X	X	Х
# OFF	X	X	Х
#6566 Monitor Program Sources 12	Х	Х	Х
If sources are not on via dial code or through the Administrative Software Tool, then the user will receive a busy tone.			

	Ad	Access Levels		
	1	2	3	
#71* Enable Call Forward after time-out	Х	Х	Х	
#71# Disable Call Forward after time-out	X	X	X	
#72* Enable Immediate Call Forward	X	X	X	
#72# Disable Immediate Call Forward	X	X	X	
#73 Call Pickup	X	X	X	
#85 Define test rooms			Х	
Architectural number, #, Architectural number, #, #				
#86 Reset individual test rooms to normal operation			Х	
Architectural number, #, Architectural number, #, #				
#87 Reset all test rooms to normal operation (automatically resets to normal operation at midnight)			Х	
##0 Emergency All Call		Х	Х	
##1##1 Distribute Tornado Tone		X	X	
##2##2 Distribute Fire Alarm Tone		X	X	
##3##3 Distribute Emergency Time Tone		X	X	
##4##4 Distribute All Clear Tone		X	X	
##5 Stop Emergency Tones		X	X	
##9* Crisis COS Enabled		Х	Х	
##9# Crisis COS Disabled		X	X	
(Crisis mode automatically resets to disabled at midnight)				
*9 Bump Call in Progress			Х	
*8 Join Call in Progress			X	

Temporary Page Groups

Using #35, Users may combine stations on-the-fly for an ad hoc audio group announcement.

Automatic Relay Operation/Control Individual relays

System relays normally follow their preprogrammed functions. This automatic operation may be disabled and reenabled.

Schedule Control

System schedules normally follow their preprogrammed days and dates. This automatic operation may be disabled and reenabled. Schedules may also be forced to operate on a given day using #51 - #58 commands.

Program Sources

#61 and #62 commands turn the aux inputs on and off.

Monitor Program Sources

When audio is being distributed through aux 1 or aux 2, the audio can be monitored via the admin phones

Test Rooms

When individual stations are defined as "Test Rooms" (#85 dial code), they will not receive normal level audio group announcements or bell tones from schedules. Test rooms may be managed from dial codes and automatically reset at midnight each night.

Crisis COS

Enabling Crisis COS removes all call button-initiated calls from the call queue and disallows normal level call button-initiated calls until the Crisis COS is disabled. Crisis COS automatically resets at midnight each night

www.Valcom.com

Join and Bump

When a called station is busy, level 3 admin phones may join the conversation or override the conversation thus bumping the other admin station from the call.

Call Forward and Call Pickup

Using these codes, when "Use Secondary Admin" is checked under Admin programming, call button-initiated calls may be forwarded after the queue timeout or immediately. Call Pickup allows Admin 1 calls to be picked up by Admin 2 and vice versa.

Clock Correction

The ACS has a gray DB15 to RJ45 adapter (945703) attached to a daughter board on the ACS CPU. Use a standard Ethernet patch cable to connect this RJ45 to either a V-DCPI Digital Clock Protocol Interface for 2-Wire Digital Correction or to the supplied VM-186 block for 59th Minute synchronous correction on the white/blue VM-186 output.

59th Minute Correction Relay Operation

On 8s from XX:57:54 to XX:58:02

On 14s from 5:57:54 to 5:58:08 (**AM and PM**)

Click <u>here</u> for clock correction diagrams.

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 VCMessageUtil software via the included USB A/B cable.

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

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

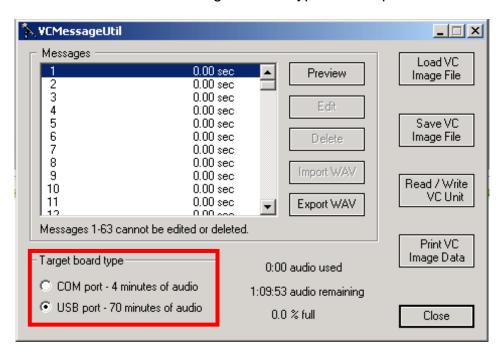


Run the USBXpressInstaller before running the VCMessageUtilSetup installation file.



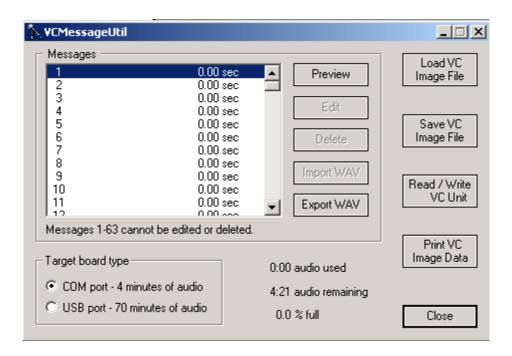
Once these 2 steps are complete, the VCMessageUtil program will be found under the PC's programs directory.

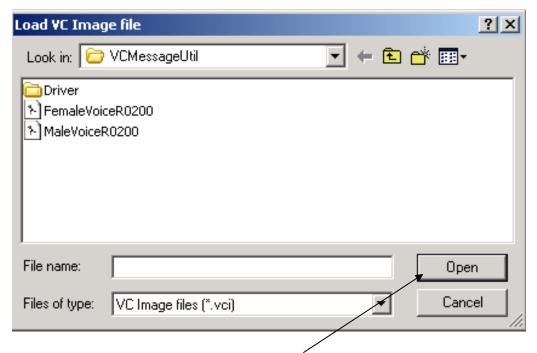
Choose the Target Board Type of USB port



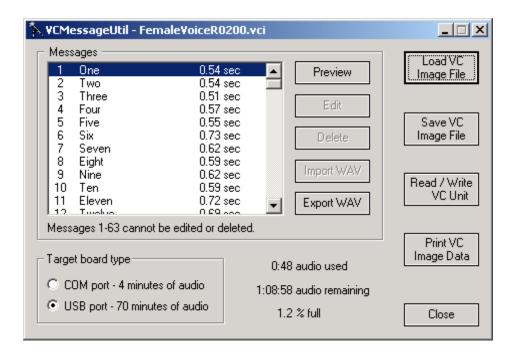
Load VC Image File

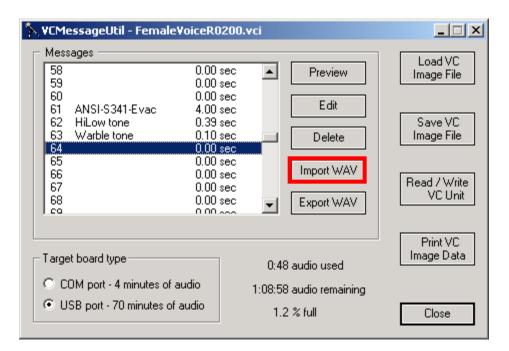
Initially, you will load a default file. Default files include all the voice phrases and some of the tones used by the system. Default files are available with the default phrases spoken by a Female or Male voice.





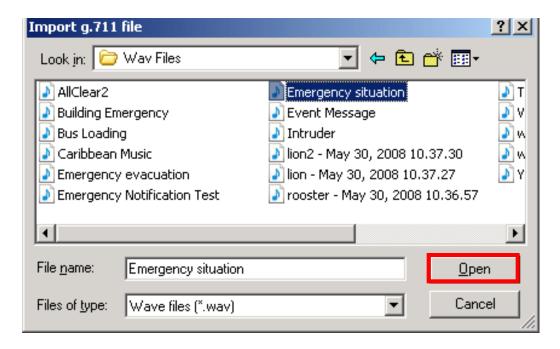
Choose a VC Image File and click Open.



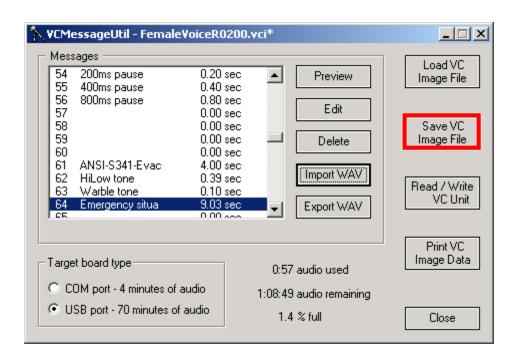


Custom 8-bit u-law WAV files may be loaded beginning at message 64. Choose the message slot you wish to populate and click "Import WAV".

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

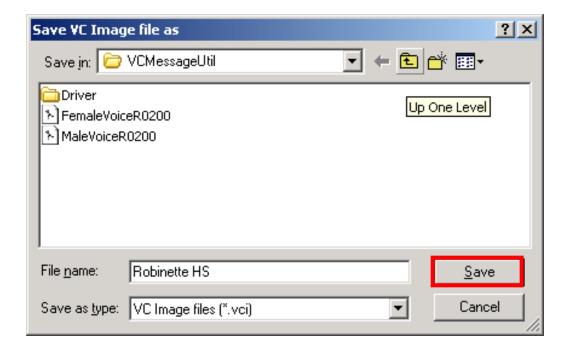


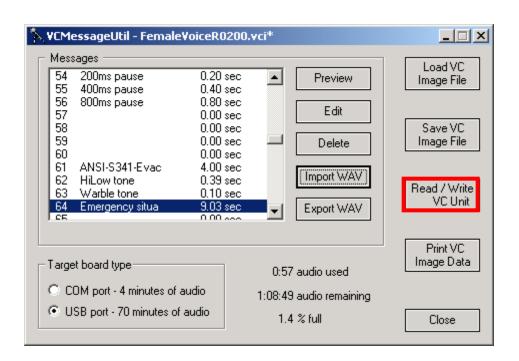
Repeat the above steps until all custom WAV files have been added.



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.

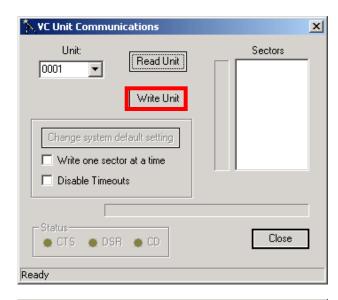


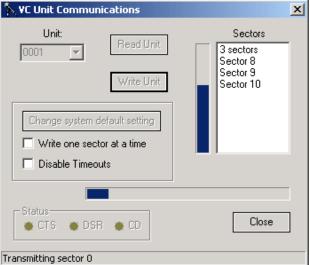


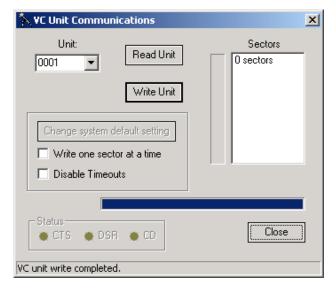
Click "Read/Write VC Unit" to upload the customized VCI file to the ACS CPU

Upload Process

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







Write in process.

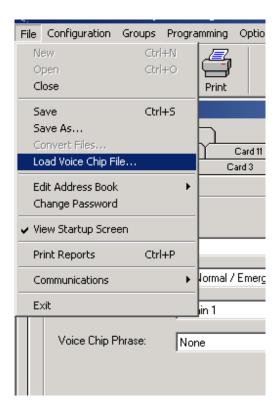
The final step is accomplished through the ACS System Programming Tool.

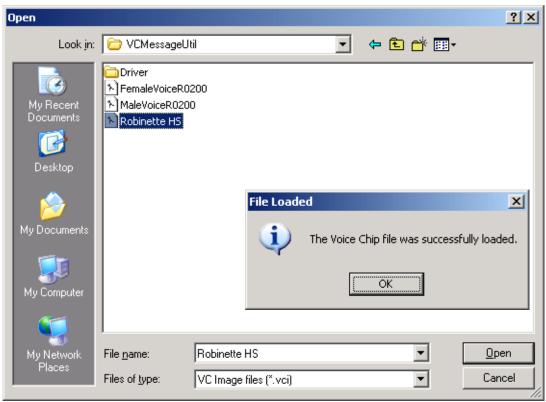
Invoke the ACS Programming Tool.

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 gueued phrases.

Format:

#34 (level 3 Office Telephone only)

Voice Phrase Programming Setup

The Voice Chip Programmer (VCMessageUtil) 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

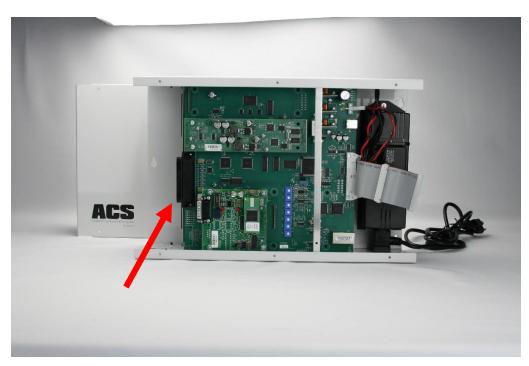
Product Images



Wall Mounted V-ACS Main / Expansion Cabinet



Internal View



Speaker and I/O wiring may be managed internally with the included wire management connection blocks or externally via Amphenol connected 25-pair cables and 66 or 110 style blocks

We'd like to hear from you!

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1-540-563-2000

Need Assistance? Ask for Valcom Technical Support

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