

2022

Advanced Communication System

Revision 2022-1.02

This Document Is Intended to Be Viewed in PDF Format



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

Use Ctrl + F to search

Contents

CPU CARD	4
CPU Card Amphenol Pinout	6
45-OHM TALKBACK STATION CARD	8
45 Ohm Talkback P1 Station Card Amphenol Connector (closest to the Hex Address Switch)	9
45 Ohm P2 Amphenol Connector	10
25-Volt Talkback Station Card	11
25-Volt Talkback Station Card P1 Amphenol Connector (closest to the Hex Address Switch)	12
25-Volt Talkback Station Card P2 Amphenol Connector	13
Expansion Cabinets	15
ONE WAY SPEAKER CIRCUITS	15
RE-USING V-2924A EXPANDABLE TALKBACK INTERCOM SPEAKERS AND WIRING	15
System Programming	16
Setting the IP address	47
OFFICE PHONE DIALING PLAN	56
Temporary Page Groups	58
Automatic Relay Operation/Control Individual relays	58
Schedule Control	58
Program Sources	58
Monitor Program Sources	58
Test Rooms	58
Crisis COS	58
Join and Bump	59
Call Forward and Call Pickup	59
SET SYSTEM DATE AND TIME	59
Answering Calls (Auto Answer Disabled)	60
CLOCK CORRECTION	62
PROGRAMMABLE VOICE CHIP MODULE	63
Product Images	74
NE'D LIKE TO HEAR FROM YOU!	76

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.

© 2019-2022 Valcom, Inc. Roanoke, VA

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

Poir 1	Tip – 26 White/Blue	Admin (FXS) 1 Tip
Fall I	Ring – 1 Blue/White	Admin (FXS) 1 Ring
Doir 2	Tip – 27 White/Orange	Admin (FXS) 2 Tip
Fall Z	Ring – 2 Orange/White	Admin (FXS) 2 Ring
Doir 2	Tip – 28 White/Green	
Fall 5	Ring – 3 Green/White	
Doir 4	Tip – 29 White/Brown	
Fall 4	Ring - 4 Brown/White	
Poir 5	Tip - 30 White/Slate	
Fall 5	Ring – 5 Slate/White	
Poir 6	Tip – 31 Red/Blue	Aux 1
Fall 0	Ring – 6 Blue/Red	Aux 1
Poir 7	Tip – 32 Red/Orange	Aux 2
Fall 7	Ring – 7 Orange/Red	Aux 2
Poir 8	Tip – 33 Red/Green	
Fall o	Ring – 8 Green/Red	
Poir 0	Tip – 34 Red/Brown	Lo Z Microphone
Fall 9	Ring – 9 Brown/Red	Lo Z Microphone
Doir 10	Tip – 35 Red/Slate	Microphone Shield
Fall 10	Ring – 10 Slate/Red	
Doir 11	Tip – 36 Black/Blue	Switch 1
Fall II	Ring – 11 Blue/Black	Switch 1
Doir 12	Tip – 37 Black/Orange	Switch 2
Fall 12	Ring – 12 Orange/Black	Switch 2
Doir 12	Tip – 38 Black/Green	Switch 3
Fall 15	Ring – 13 Green/Black	Switch 3
Doir 14	Tip – 39 Black/Brown	
Fall 14	Ring – 14 Brown/Black	
Poir 15	Tip – 40 Black/Slate	
Tall 15	Ring – 15 Slate/Black	
Pair 16	Tip – 41 Yellow/Blue	
	Ring – 16 Blue/yellow	
Doir 17	Tip – 42 Yellow/Orange	
	Ring – 17 Orange/Yellow	
Doir 19	Tip – 43 Yellow/Green	Relay 1 S
	Ring – 18 Green/yellow	Relay 1 M
Poir 10	Tip – 44 Yellow/Brown	Relay 2 S
Fall 19	Ring – 19 Brown/Yellow	Relay 2 M
Pair 20	Tip – 45 Yellow/Slate	Relay 3 S
Fall 20	Ring – 20 Slate/Yellow	Relay 3 M
Doir 21	Tip – 46 Violet/Blue	Relay 4 S
Fall 21	Ring – 21 Blue/Violet	Relay 4 M
Pair 22	Tip – 47 Violet/Orange	
1 011 22	Ring – 22 Orange/Violet	
Pair 23	Tip – 48 Violet/Green	
1 all 20	Ring – 23 Green/Violet	
Pair 24	Tip – 49 Violet/Brown	
F all 24	Ring – 24 Brown/Violet	
Pair 25	Tip – 50 Violet/Slate	
1 all 20	Ring – 25 Slate/Violet	



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

www.Valcom.com

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.
- 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 <u>Best Practices and General</u> <u>Troubleshooting Procedures.</u>

45 Ohm Talkback P1 Station Card Amphenol Connector (closest to the Hex Address Switch)

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
1 411 2	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
1 41 5	Ring – 5 Slate/White	Station 3 Speaker
Pair 6	Tip – 31 Red/Blue	Station 3 Call Switch
1 811 0	Ring – 6 Blue/Red	Station 3 Call Switch
Dair 7	Tip – 32 Red/Orange	Station 4 Speaker
r all r	Ring – 7 Orange/Red	Station 4 Speaker
Dair 8	Tip – 33 Red/Green	Station 4 Call Switch
T all O	Ring – 8 Green/Red	Station 4 Call Switch
Dair 0	Tip – 34 Red/Brown	Station 5 Speaker
Fall 9	Ring – 9 Brown/Red	Station 5 Speaker
Doir 10	Tip – 35 Red/Slate	Station 5 Call Switch
Fall 10	Ring – 10 Slate/Red	Station 5 Call Switch
Doir 11	Tip – 36 Black/Blue	Station 6 Speaker
Fall II	Ring – 11 Blue/Black	Station 6 Speaker
Doir 10	Tip – 37 Black/Orange	Station 6 Call Switch
Pair 12	Ring – 12 Orange/Black	Station 6 Call Switch
Doir 12	Tip – 38 Black/Green	Station 7 Speaker
Fall 15	Ring – 13 Green/Black	Station 7 Speaker
Doir 14	Tip – 39 Black/Brown	Station 7 Call Switch
Pair 14	Ring – 14 Brown/Black	Station 7 Call Switch
Doir 15	Tip – 40 Black/Slate	Station 8 Speaker
Fail 15	Ring – 15 Slate/Black	Station 8 Speaker
Doir 16	Tip – 41 Yellow/Blue	Station 8 Call Switch
Fall 10	Ring – 16 Blue/yellow	Station 8 Call Switch
Doir 17	Tip – 42 Yellow/Orange	Station 9 Speaker
Pair 17	Ring – 17 Orange/Yellow	Station 9 Speaker
Deir 40	Tip – 43 Yellow/Green	Station 9 Call Switch
Pair 18	Ring – 18 Green/yellow	Station 9 Call Switch
Deir 10	Tip – 44 Yellow/Brown	Station 10 Speaker
Pair 19	Ring – 19 Brown/Yellow	Station 10 Speaker
Deir 00	Tip – 45 Yellow/Slate	Station 10 Call Switch
Pair 20	Ring – 20 Slate/Yellow	Station 10 Call Switch
D : 01	Tip – 46 Violet/Blue	Station 11 Speaker
Pair 21	Ring – 21 Blue/Violet	Station 11 Speaker
Deir 00	Tip – 47 Violet/Orange	Station 11 Call Switch
Pair 22	Ring – 22 Orange/Violet	Station 11 Call Switch
Deiz 00	Tip – 48 Violet/Green	Station 12 Speaker
Pair 23	Ring – 23 Green/Violet	Station 12 Speaker
D : 04	Tip – 49 Violet/Brown	Station 12 Call Switch
Pair 24	Ring – 24 Brown/Violet	Station 12 Call Switch
D : 07	Tip – 50 Violet/Slate	
Pair 25	Ring – 25 Slate/Violet	

www.Valcom.com

45 Ohm P2 Amphenol Connector

Dein 4	Tip – 26 White/Blue	Station 13 Speaker
Pair 1	Ring – 1 Blue/White	Station 13 Speaker
Dair 2	Tip – 27 White/Orange	Station 13 Call Switch
rali 2	Ring – 2 Orange/White	Station 13 Call Switch
Deir 0	Tip – 28 White/Green	Station 14 Speaker
Pair 3	Ring – 3 Green/White	Station 14 Speaker
Dein 4	Tip – 29 White/Brown	Station 14 Call Switch
Pair 4	Ring - 4 Brown/White	Station 14 Call Switch
Doir F	Tip - 30 White/Slate	Station 15 Speaker
Pairs	Ring – 5 Slate/White	Station 15 Speaker
Deir C	Tip – 31 Red/Blue	Station 15 Call Switch
Pairo	Ring – 6 Blue/Red	Station 15 Call Switch
Doir 7	Tip – 32 Red/Orange	Station 16 Speaker
Pall /	Ring – 7 Orange/Red	Station 16 Speaker
Doir 9	Tip – 33 Red/Green	Station 16Call Switch
Pairo	Ring – 8 Green/Red	Station 16 Call Switch
Doir 0	Tip – 34 Red/Brown	Station 17 Speaker
Pair 9	Ring – 9 Brown/Red	Station 17 Speaker
Doir 10	Tip – 35 Red/Slate	Station 17 Call Switch
Pair 10	Ring – 10 Slate/Red	Station 17 Call Switch
Doir 11	Tip – 36 Black/Blue	Station 18 Speaker
Fall II	Ring – 11 Blue/Black	Station 18 Speaker
Doir 12	Tip – 37 Black/Orange	Station 18 Call Switch
Fall 12	Ring – 12 Orange/Black	Station 18 Call Switch
Doir 12	Tip – 38 Black/Green	Station 19 Speaker
Fail 15	Ring – 13 Green/Black	Station 19 Speaker
Pair 1/	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
1 411 15	Ring – 15 Slate/Black	Station 20 Speaker
Pair 16	Tip – 41 Yellow/Blue	Station 20 Call Switch
T dil TO	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
1 411 20	Ring – 20 Slate/Yellow	Station 22 Call Switch
Pair 21	Tip – 46 Violet/Blue	Station 23 Speaker
i ui zi	Ring – 21 Blue/Violet	Station 23 Speaker
Pair 22	Tip – 47 Violet/Orange	Station 23 Call Switch
	Ring – 22 Orange/Violet	Station 23 Call Switch
Pair 23	Tip – 48 Violet/Green	Station 24 Speaker
20	Ring – 23 Green/Violet	Station 24 Speaker
Pair 24	Tip – 49 Violet/Brown	Station 24 Call Switch
	Ring – 24 Brown/Violet	Station 24 Call Switch
Pair 25	Tip – 50 Violet/Slate	
	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.
- 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>

25-Volt Talkback Station Card P1 Amphenol Connector (closest to the Hex Address Switch)

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 A
r all 2	Ring – 2 Orange/White	Station 1 Call Switch B
Dair 3	Tip – 28 White/Green	Station 2 Speaker
T all 5	Ring – 3 Green/White	Station 2 Speaker
Poir 4	Tip – 29 White/Brown	Station 2 Call Switch A
1 411 4	Ring - 4 Brown/White	Station 2 Call Switch B
Pair 5	Tip - 30 White/Slate	Station 3 Speaker
Fall 5	Ring – 5 Slate/White	Station 3 Speaker
Poir 6	Tip – 31 Red/Blue	Station 3 Call Switch A
Fall 0	Ring – 6 Blue/Red	Station 3 Call Switch B
Doir 7	Tip – 32 Red/Orange	Station 4 Speaker
Pail 7	Ring – 7 Orange/Red	Station 4 Speaker
Doir 9	Tip – 33 Red/Green	Station 4 Call Switch A
Pallo	Ring – 8 Green/Red	Station 4 Call Switch B
Deir 0	Tip – 34 Red/Brown	Station 5 Speaker
Pair 9	Ring – 9 Brown/Red	Station 5 Speaker
Deir 10	Tip – 35 Red/Slate	Station 5 Call Switch A
Pair 10	Ring – 10 Slate/Red	Station 5 Call Switch B
Dein 44	Tip – 36 Black/Blue	Station 6 Speaker
Pair 11	Ring – 11 Blue/Black	Station 6 Speaker
D : 40	Tip – 37 Black/Orange	Station 6 Call Switch A
Pair 12	Ring – 12 Orange/Black	Station 6 Call Switch B
D : 40	Tip – 38 Black/Green	Station 7 Speaker
Pair 13	Ring – 13 Green/Black	Station 7 Speaker
D : 44	Tip – 39 Black/Brown	Station 7 Call Switch A
Pair 14	Ring – 14 Brown/Black	Station 7 Call Switch B
Dein 45	Tip – 40 Black/Slate	Station 8 Speaker
Pair 15	Ring – 15 Slate/Black	Station 8 Speaker
Deir 40	Tip – 41 Yellow/Blue	Station 8 Call Switch A
Pair 16	Ring – 16 Blue/yellow	Station 8 Call Switch B
Dein 47	Tip – 42 Yellow/Orange	Station 9 Speaker
Pair 17	Ring – 17 Orange/Yellow	Station 9 Speaker
D : 10	Tip – 43 Yellow/Green	Station 9 Call Switch A
Pair 18	Ring – 18 Green/yellow	Station 9 Call Switch B
D : 40	Tip – 44 Yellow/Brown	Station 10 Speaker
Pair 19	Ring – 19 Brown/Yellow	Station 10 Speaker
D : 00	Tip – 45 Yellow/Slate	Station 10 Call Switch A
Pair 20	Ring – 20 Slate/Yellow	Station 10 Call Switch B
	Tip – 46 Violet/Blue	Station 11 Speaker
Pair 21	Ring – 21 Blue/Violet	Station 11 Speaker
-	Tip – 47 Violet/Orange	Station 11 Call Switch A
Pair 22	Ring – 22 Orange/Violet	Station 11 Call Switch B
- • • •	Tip – 48 Violet/Green	Station 12 Speaker
Pair 23	Ring – 23 Green/Violet	Station 12 Speaker
	Tip – 49 Violet/Brown	Station 12 Call Switch A
Pair 24	Ring – 24 Brown/Violet	Station 12 Call Switch B
	Tip = 50 Violet/Slate	
Pair 25	Ring - 25 Slate/Violet	

www.Valcom.com

25-Volt Talkback Station Card P2 Amphenol Connector

Pair 1	Tip – 26 White/Blue	Station 13 Speaker
T CIT T	Ring – 1 Blue/White	Station 13 Speaker
Pair 2	Tip – 27 White/Orange	Station 13 Call Switch A
1 011 2	Ring – 2 Orange/White	Station 13 Call Switch B
Dair 3	Tip – 28 White/Green	Station 14 Speaker
1 811 5	Ring – 3 Green/White	Station 14 Speaker
Pair 4	Tip – 29 White/Brown	Station 14 Call Switch A
1 all 4	Ring - 4 Brown/White	Station 14 Call Switch B
Pair 5	Tip - 30 White/Slate	Station 15 Speaker
T all J	Ring – 5 Slate/White	Station 15 Speaker
Poir 6	Tip – 31 Red/Blue	Station 15 Call Switch A
Fall 0	Ring – 6 Blue/Red	Station 15 Call Switch B
Doir 7	Tip – 32 Red/Orange	Station 16 Speaker
Pail 7	Ring – 7 Orange/Red	Station 16 Speaker
Doir 9	Tip – 33 Red/Green	Station 16 Call Switch A
Fall O	Ring – 8 Green/Red	Station 16 Call Switch B
Doir 0	Tip – 34 Red/Brown	Station 17 Speaker
Pail 9	Ring – 9 Brown/Red	Station 17 Speaker
Deir 10	Tip – 35 Red/Slate	Station 17 Call Switch A
Pair 10	Ring – 10 Slate/Red	Station 17 Call Switch B
Dein 44	Tip – 36 Black/Blue	Station 18 Speaker
Pair 11	Ring – 11 Blue/Black	Station 18 Speaker
D : 40	Tip – 37 Black/Orange	Station 18 Call Switch A
Pair 12	Ring – 12 Orange/Black	Station 18 Call Switch B
D : 40	Tip – 38 Black/Green	Station 19 Speaker
Pair 13	Ring – 13 Green/Black	Station 19 Speaker
D : 44	Tip – 39 Black/Brown	Station 19 Call Switch A
Pair 14	Ring – 14 Brown/Black	Station 19 Call Switch B
Dein 45	Tip – 40 Black/Slate	Station 20 Speaker
Pair 15	Ring – 15 Slate/Black	Station 20 Speaker
Dein 40	Tip – 41 Yellow/Blue	Station 20 Call Switch A
Pair 16	Ring – 16 Blue/yellow	Station 20 Call Switch B
D : 47	Tip – 42 Yellow/Orange	Station 21 Speaker
Pair 17	Ring – 17 Orange/Yellow	Station 21 Speaker
D : 10	Tip – 43 Yellow/Green	Station 21 Call Switch A
Pair 18	Ring – 18 Green/vellow	Station 21 Call Switch B
D : 40	Tip – 44 Yellow/Brown	Station 22 Speaker
Pair 19	Ring – 19 Brown/Yellow	Station 22 Speaker
D : 00	Tip – 45 Yellow/Slate	Station 22 Call Switch A
Pair 20	Ring – 20 Slate/Yellow	Station 22 Call Switch B
D : 01	Tip – 46 Violet/Blue	Station 23 Speaker
Pair 21	Ring – 21 Blue/Violet	Station 23 Speaker
D : 00	Tip – 47 Violet/Orange	Station 23 Call Switch A
Pair 22	Ring – 22 Orange/Violet	Station 23 Call Switch B
D · · · · ·	Tip – 48 Violet/Green	Station 24 Speaker
Pair 23	Ring – 23 Green/Violet	Station 24 Speaker
- • • •	Tip – 49 Violet/Brown	Station 24 Call Switch A
Pair 24	Ring – 24 Brown/Violet	Station 24 Call Switch B
	Tip – 50 Violet/Slate	
Pair 25	Ring – 25 Slate/Violet	
l		1

www.Valcom.com



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**. The V-CA2924 provides a per speaker zone volume adjustment.

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.)

Cor	nfigure Syster Sta	m Cards	
	Card 1 Card 2 Card 3	45 Ohm Talkback Card Empty Empty	
			Configure System Cards Station Cards Card 1 45 0hm Talkback Card Card 2 Empty Card 3 Empty Empty V 45 0hm Talkback Card V 2 Empty V Card 3 Empty V V Station Cards V Card 2 Empty V V Empty V Station Card 2 V V V Empty V V V Empty V Volt Talkback Card 25 Volt Talkback Card
		<u>0</u> K	<u>C</u> ancel

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.

North Account of the second se	
Valcom ACS Programmer - New System	and the second se
File Configuration Groups Programming Options Transfer Window Help	
New Open Save Print Connect Release	
System Configuration	
[] [: 45 Ohm; Card 2	
- Card 1	
	Station: 1
	Station: 1
Arch Number: 101 Caller ID:	
Access Level Day: 2 · Normal / Emergency Access Level Night: 2 · Normal /	Emergency 💌
A deix Challer Dave Land a	
Voice Chip Phrase: None	
Audio Groups	
Card: 1 Point: 1	
	•
Close	

Each talkback station card offers 24 speaker connections and 24 corresponding call button inputs.

Each talkback station has a numeric dial code, known as the Architectural (Arch) Number, which is dialed from an Admin phone to reach that station for intercom (talkback) calls. The *default* Arch Number is a three-digit number beginning with 101 for the first station and continuing in numeric order to 124 for the last station.

If using the 48-port expansion unit, the default station Arch Numbers continue with 125-148.

If using the 72-port expansion unit, the default station Arch Numbers continue with 149-172.

Any speaker output may be accessed by dialing its uniquely assigned numeric Arch Number. For example, with the default Arch Numbers, dialing "101" will call the first station.

Speaker outputs may be also added into any of the system's 24 one-way audio groups for common one-way announcements.

© 2019-2022 Valcom, Inc. Roanoke, VA

iystem Configuration 1: 45 Ohm Card 2				
Card 1	101	Caller ID:		Station: 1
Access Level Day:	2 · Normal / Emergency 0 · Normal Only 2 · Normal / Emergency	Access Level Night:	2 - Normal / Emergency	-
Voice Chip Phrase:	3 - Urgent / Emergency 4 - Overhead Ring 5 - Emergency Only 6 - Ignore		Admin 1 Admin 2	
	Auc	lio Groups		
4	Lau			•
L		Close		

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.

System Configuration				
1: 45 Ohm Card 2				
Card 1				Station: 1
Arch Number:	101	Caller ID:		
Access Level Day:	2 - Normal / Emergency 🔹	Access Level Night:	2 - Normal / Emergency	•
Admin Station Day:	Admin 1	Admin Station Night:	Admin 1	•
Voice Chip Phrase:	None			
	None 24 - Sunday 25 - Monday 26 - Tuesday 27 - Wednesday 28 - Thursday 29 - Friday			
•	30 - Saturday 31 - A.M. 32 - P.M. 33 - Time Update OK 34 - TimeUpdateError 35 - LastTimeUpdate			Þ
	36 - EmergencyVerify 37 - Call Blocked 38 - Call Dropped 39 - Zero			-

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.

ystem Configuration 1: 45 Ohm	2			
Card 1 Arch Number: Access Level Day: Admin Station Day: Voice Chin Physics	101 2 - Normal / Emergency Admin 1	Caller ID: Access Level Night: Admin Station Night:	Station: 1 2 - Normal / Emergency Admin 1	
<u>.</u>	Card	io Groups 1 Point: 1 Close	Audio Groups	<u>A</u> ll <u>None</u> <u>QK</u> <u>Cancel</u>

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:

Valcom ACS Programmer - New System								
File Cor	nfiguration	Groups	Programming Options	Tra				
Nevv	Open (Au	dio Groups (1 - 24) sic Groups (1 - 2)	elea				
System C	System Configuration							
1: 45	Ohm	Card 2						

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.

S V-	Leave ACC Deserve		Laure Countraint						
N2 va	icom ACS Progr	ammer - I	vew system						
File	Configuration	Groups	Programming	Options	Transfer	Window	Help		
INEX	w Open	Save	Print C	onnect	Release				
Syste	em Configuration	n							
	1: 45 Ohm	Card 2							
	Card 1 Arch Number Access Leve Admin Station Voice Chip Pl	: Day: hrise:	101 2 · Normal / Eme Admin 1 None	srgency	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	Caller ID: Access Leve Admin Static	el Night: n Night:	2 - Normal / Emergency Admin 1	Station: 1

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.

<u>ئ</u> ک	alcom ACS Progra	ammer - N	New System				
File	Configuration	Groups	Programming	Options	Transfer	Window	Help
5	New		Ctrl+N		24		
	Open		Ctrl+O	Connect	Release		
	Close			connect	Nelease		
	Save		Ctrl+S				
	Save As						
	Load Voice Chip	File					
	Unload Voice Ch	nip File					
	Edit Address Boo	ok	+			Caller ID:	
	Change Passwor	rd				Caller ID.	
✓	View Startup Scr	een		ergency	-	Access Lev	el Night:
	Print Reports		Ctrl+P		•	Admin Static	on Night:
	Communication	IS	+				
	Exit						
					<u>A</u> udio U	iroups	
					Card: 1	Point: 1	
	•						
					<u>C</u> lo	se	

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.

् Va	lcom ACS Progra	ammer - N	lew System				
File	Configuration	Groups	Programming	Options	Transfer	Window	Help
Ne Syste	Cards System Copy Stati	on Progra	mming	nect	Release		
	Unassigne	d Data	ming				
	Card 1			_			
	Arch Number	:	101			Caller ID:	
	Access Leve	I Day:	2 - Normal / Em	ergency	•	Access Lev	el Night:
	Admin Station	n Day:	Admin 1		•	Admin Static	on Night:
	Voice Chip Pl	hrase:	None				
					<u>A</u> udio (àroups	
					Card: 1	Point: 1	
	•						
					<u>lo</u>	se	

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

<u>ر</u> ا کې	alcom ACS Program	mer - N	lew System			
File	Configuration G	roups	Programming	Options	Transfer	Window H
		Auc	dio Groups (1 - 2	4)	57 S -	
Ne	w Open	Mu	sic Groups (1 - 2)	elease	
Syst	em Configuration					
Ċ	1: 45 Obm	Card 2				
	Could					
	Areh Number		101			Caller ID:
	Arch Number:					Caller ID:
	Access Level Da	ay:	2 - Normal / Eme	rgency	•	Access Level I
	Admin Station D	ay:	Admin 1		•	Admin Station I
	Voice Chip Phra	se:	None			
					Audio (âroups
					Card: 1	Point: 1
	•					
					<u>C</u> lo	se

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.

S V:	alcom ACS Progr	ammer - N	Vew System				
File	Configuration	Groups	Programming	Options	Transfer	Window	Help
Ne	open Configuration	Save	Program A Program F Program S Program S	Admin Stat Relays Schedule Ev Schedule D	ions vents ates		
	1: 45 Ohm	Card 2					
	Card 1						
	Arch Number	:	101			Caller ID:	
	Access Leve	l Day:	2 - Normal / Eme	ergency	•	Access Lev	el Night:
	Admin Station	n Day:	Admin 1		•	Admin Static	on Night:
	Voice Chip P	hrase:	None				
					Audio 6 Card: 1	àroups Point: 1	
					<u>l</u> o	se	

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.

dmin Stations			
Admin 1	Admin 2		
Arch Number: Auto Answer: Voice Announce:	501 v	Caller ID: Admin 1 Use Secondary Admin Access Level: 3 Use Hunt Group:	v
Voice Chip Phrase:	None		•
		Close	

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.

				Thomas a
Relay Status Name:	× 0 - Manual	Control		
CPU Rela	Balan 1	Polau 2	Polyu 2	
	Relay Status: Name:	0 - Manual Control 1 - Cycling 2 - Follow Time Schedule 5 - Emergency 11 - Card Fault Detection 12 - Follow Audio Groups		

Refer to the following page for information on Relay Programming.

www.Valcom.com

CPU Relays			
Relay 1	Relay 2	Relay 3	Relay 4
Relay Status: Name:	0 - Manual Control 0 - Manual Control 1 - Cycling 2 - Follow Time Schedule 5 - Emergency 11 - Card Fault Detection 12 - Follow Audio Groups		

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	٠
All Call				
1	•			
2				
3		•		

hedule Events				
Schedule 5	Schedule 6		Schedule 7	Schedule 8
Schedule 1	Schedule 2	Ţ.	Schedule 3	Schedule 4
– Events - (0 Events Pre:	Name:			
Time Action		Duration	Prty 1 2 3 4	5 6 7 8 9
			\$	
Add	Edit	<u>D</u> elete	Arc <u>h</u> ive <u>I</u>	₽oad
	Copy Events	Close	View Dates	

Up to 8 schedules may be named and defined in the ACS system at any time. Each schedule can have up to 255 entries (events) with a system maximum of 1024 entries (events). 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.

Time I	Events	
	Time:	00:00
	Action:	02 - 512 Hz
	Duration:	3 sec 💌
	Priority:	4 - Time Scheduled Event Priority
	Groups: <u>A</u> ll <u>N</u> one	1 * 2
		<u>O</u> K <u>C</u> ancel

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.

chor	4		D-+																																					
chet	au	ie i	Dau	es.																																				
Sta	rt I	Dal	te:	ŀ	Janu	ary		_	-	Þ	019	÷			vent	List		C	lear.	<u>G</u> rou	ιp		Cle	ar <u>A</u>	I							<u>C</u> lo	se				ł	Vi	ew E	vents
		J	anı	Jar	y 20	019				F	ebr	var	y 2	019				Ma	rch	201	9			April 2019						Schedules										
\$		м	T 1	W 2	1 3	1	: 1	s 5	S	м	T	W	T	L,	s 2	\$	Μ	T	W	T	F	s 2	8	M	1 2	W 3	T 4	F 5	S 6		1 2	• Full • Hal	Da f Da	y ∋y						
6		7	8	9	10) 1	1	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9	7	8	9	10	11	12	13		3	• E ar	ly Fl	ele	ase					
13	;	14	15	16	5 17	1	8	19	10	11	12	2 13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20		4	- Tes	sting	3						
20) :	21	22	23	3 24	4 2	5	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27											
27		28	29	30	31				24	25	26	27	28			24	25	26	27	28	29	30	28	29	30						7									
												7				31															8									
May 2019 June 2019					,		July 2019					August 2019																												
\$		м	T	W	I T		:	s	s	М	T	W	Т	F	S	S	Μ	T	w	T	F	S	s	M	T	w	T	F	S											
Е				1	2	3	3	4							1		1	2	3	4	5	6	IE.				1	2	3											
5		6	7	8	9	1	0	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10											
12	2	13	14	15	5 18	5 1	7	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17											
19		20	21	22	2 23	3 2	4	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24											
26		27	28	29	30) 3	1		23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30	31											
L									30																															
	\$	Sej	pte	mb	er :	201	9				Dete	obe	r 20	019			No	ve	mbe	er 2	019			De	ece	mbe	er 2	019		Г	Mod	e —								
\$		м						s	S						S	S							S						S		ø	Viev	v Da	ates	:					
1		2	3	4	5	6	5	7			1	2	3	4	5						1	2	1	2	3	4	5	6	7		0	Build	1Da	atel	Grou	n				
8		9	10	11	12	2 1	3	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14		_									
15	5	16	17	18	3 19	2	0	21	13	14	15	5 16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21		0	Set	Hol	iday	Mod	de L	Jate	s		
22	2	23	24	25	5 26	5 2	7	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28					S	et D)ef	ault	s :		
29		30							27	28	29	30	31			24	25	26	27	28	29	30	29	30	31						5	5 N	Λ	т	W	,	т	F	s	н
	_																													L	_			_				-		

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.*

🖉 Va	Icom ACS Progr	ammer - N	New System				
File	Configuration	Groups	Programming	Options	Transfer	Window	Help
Nev	N Open	Save	Print C	Au Da	to DST y/Night Tim	ing	
Syste	m Configuration	n		Init	tialize Tones		
	1: 45 Ohm	Card 2		Ing Ph	outs rase Volume	s	
	Card 1			Qu Sai SN	nple Timeou mple Tones IDR Options.	 	
	Arch Number	:	101	Sys	stem Feature	·S	
	Access Leve	l Day:	2 - Normal / Eme	Tir	ne Server		ght:
	Admin Station	n Day:	Admin 1	То	ne Control	Aanin Stade	ght:
	Voice Chip P	hrase:	None				
					<u>Audio G</u>	roups	
					Card: 1 F	Point: 1	
	▲						
					<u>lo:</u>	se 🛛	

Daylight Saving Time
Daylight Saving Time Correction
Disabled
Disabled Enabled Using Manual Dates Enabled Using 2007 Based Method
<u> </u>

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.

💐 Day / Night Timir	ng	- • •
	Day (HH:MM)	Night (HH:MM)
Sunday	01 💻	00:02
Monday	06:00	17:00
Tuesday	06:00	17:00
Wednesday	06:00	17:00
Thursday	06:00	17:00
Friday	06 : 00	17:00
Saturday	00:01	00:02
Holiday	00:01	00:02
<u><u> </u></u>	Cancel	Apply

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.

Thergency	- • •
Emergency Secondary Admin:	Admin 1
Transfer To Overhead Page:	
Audio Group:	1 💌
Overhead Page Timeout:	
Timeout Value (HH:MM):	00:10
<u>D</u> K <u>C</u> ancel	Apply

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.
💐 Initialize To	ones			•	
Ton	Time	Door Fire	All Clea Night Ring		
⊢ Setup – T	one Type: 6 - Warble		•		
	🕈 Initialize Tones				
	Time		Door Fire	All Clear Night Ring	
	Setup Tone Ty Tone Ty Time On	pe: 6 - Warble Cont 1 - 683 Hz 2 - 512 Hz 5 - High/L 6 - Warble 2 - Single I 9 - Dual Cl	d ow Chime High nime		
			<u>C</u> ancel	Apply	

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.

CPU Inputs	- • •
Input 1 Input 2 Input 3	
Input Value: 05 - Microphone	_
l l l l l l l l l l l l l l l l l l l	
<u> </u>	עוקנ

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.

Phrase Volumes		x	
Phrases to Speakers:]	
Phrase	Offset From Master	-	
24 - Sunday	0		
25 - Monday	0		
26 - Tuesday	0		
27 - Wednesday	0		
28 - Thursday	0		
29 - Friday	0		
30 - Saturday	0		
31 - A.M.	0		
32 - P.M.	0		
33 - Time Update OK	0		
34 - TimeUpdateError	0		
35 - LastTimeUpdate	0		
36 - EmergencyVerify	0		
37 - Call Blocked	0	_	
	<u>Cancel</u>	Ţ	

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

💐 Queue Timeout			ĸ
Timeout V	'alue: <mark>30</mark>	•	
<u> </u>	<u>C</u> ancel	Apply	

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)

🛒 Sampl	e Tones	- • •
Tone:	1 - 683 Hz	•
	<u>S</u> ample	

Sample To	ones 🗖 🗖 💌
Tone:	1 - 683 Hz
<u>s</u> ,	1 - 683 Hz 2 - 512 Hz 5 - High/Low 6 - Warble 7 - Single Chime High 9 - Dual Chime

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 Options	
Time To Live (1 - 255): 32	
🔲 Send Primary syslog SMDR via UDP - (Port 514	4)
Primary UDP Address:	
🔲 Send Secondary syslog SMDR via UDP - (Port	514)
Secondary UDP Address:	
🔲 Send syslog SMDR via Multicast - (Port 10020)	
Multicast Address:	
Print Normal Calls:	All
Print Emergency Calls:	
Print Hardware Messages 🔽	None
<u>Q</u> K <u>C</u> ancel	spply

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.

🖉 ۷	alcom ACS Programm	ner - New System					-
File	Configuration Gro	oups Programmin	g Options	Transfer	Wind	ow Help	
	New	Ctrl+N					
	Open	Ctrl+O	Connect	Palazza			
	Close		connect	Nelease			
	Save	Ctrl+S					
	Save As		<u> </u>				
	Load Voice Chin File		1				
	Unload Voice Chip F	ile					
			1				
	Edit Address Book	•			Caller ID	D:	
	Change Password					Laural Milada	,
\checkmark	View Startup Screen		iergency	–	Access	Level Night	2 - Normal .
	Print Reports	Ctrl+P		•	Admin 9	Station Night:	Admin 1
	Communications		Netw	ork	•	Net Conner	-+
	commanications		TVCCVV	UIK		View CMDD	
	Exit		Disco	nnect		view SMDR	

System Features	3
Advanced	
Voice Announce Initial Delay: 1.4 sec Interdigit Delay: 80 ms	
Aux Source Available Aux 1: 🔽 Aux 2: 🔽	
<u>O</u> K <u>C</u> ancel Apply	1

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.

Time Server				
NTP Internet Time Server				
Perform Automatic Time Updates				
Auto Update Time At: 02 : 45 (HH:MM)				
Primary Server IP Address:				
Alternate Server IP Address:				
Hours Offset From UTC: 0 (Coordinated Universal Time)				
Additional Minutes Offset: 0				
NTP Time Servers I est Server Connections				
<u>Q</u> K <u>C</u> ancel				

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		- • •
Privacy Tone: Confirmation Tone: Pre-Announce Tone: One-Way Alert: Handsfree Alert:	I✓ I✓ I✓ Single Chime Dual Chime	•
<u><u> </u></u>	<u>Cancel</u>	

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.

✓ ✓	Walcom IP Utility		
Valcom CPU Mac Address: 00-D0-5F-03-94-9D Software Rev: 1.05 Name: IP Address: IP Address: 11.1.1 Subnet Mask: 255.255.255.0 Gateway IP: Update Device Cancel An IP Address has not been assigned to this device.	₽ 🕢		
Name: IP Address: 1.1.1.1 Subnet Mask: 255.255.255.0 Gateway IP: Update Device Cancel An IP Address has not been assigned to this device.	Valcom CPU	Mac Address: Software Rev:	00-D0-5F-03-94-9D 1.05
Subnet Mask: 255.255.0 Gateway IP: Update Device Cancel An IP Address has not been assigned to this device.		Name: IP Address:	1.1.1.1
Gateway IP: Update Device Cancel An IP Address has not been assigned to this device.		Subnet Mask:	255.255.255.0
An IP Address has not been assigned to this device.		Update Devic	ce Cancel
Ethernet - Intel/R) 825791 M Ginshit Network Connection - 1921681		An IP Address	has not been assigned to this device.
Ethernet - Intel/R) 825791 M Gigabit Network Connection - 1921681			
Entering of the state of the st			Ethernet : Intel(R) 82579LM Gigabit Network Connection - 192.168.1.1

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

🕮 Valcom IP Utility	1000	THE PROPERTY AND INCOME.	
₽ 2			5
Valcom CPU			
	Mac Address:	00-D0-5F-03-94-9D	
	Software Rev:	1.05	
	Name:	Valcom ACS	
	IP Address:	192.168.1.2	
	Subnet Mask:	255.255.255.0	
	Gateway IP:	192.168.1.1	
	Update Devic	ce Cancel	
	An IP Address	has not been assigned to this device.	
		Ethernet : Intel(R) 82579LM Gigabit Network Co	nnection - 192.168.1.1

ning Options Transfer Wind Connect Release	ow Help
Caller Caller Caller Caller Acces Admir Card: 1 Point: 1	Connect Address Book Manually enter data. Add Edit Delete Name: Manual IP Address: Port: 10005 Password:
Close	<u>Connect</u> <u>C</u> ancel

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

www.Valcom.com

Modify Address	
Name:	
IP Address:	
Port:	10005
Password:	
<u>0</u> K	<u>C</u> ancel

Modify Address	
Name:	Valcom ACS
IP Addiess:	192.168.1.2
Port:	10005
Password:	*****
<u>K</u>	Cancel

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.

www.Valcom.com

Connect	
Address Book	
Manually enter data.	
Valcom ACS	
	<u>E</u> dit <u>D</u> elete
Name:	Valcom ACS
IP Address:	192.168.1.2
Port:	10005
Password:	*****
6	
Connect	Cancel

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



🖉 Valcom ACS Programmer - New Sy	ystem		
File Configuration Groups Prog	ramming Options Transfer	Window Help	
New Open Save P	Print Connect Recei	ive Data Files I Data Files	
System Configuration	Syste	em Data	Configuration
1: VETCM Card 2			Date and Time
Card 1			Change System Password View System Messages
Arch Number: 101		Caller ID: T	Load Defaults Reboot Device

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.

🐨 System C	Configuration	×
System C	Configuration Card Type VETCM - Talkback Station Card	
	<u>0</u> K	

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

System Information			
Nev:	r1.05		
Link Date:	Mon Jan 7 11:26:06 2019		
System ID:	0000000		
(

www.Valcom.com

System Date and Time	- • •
Date (mm/dd/yyyy)	<u>U</u> pdate <u>R</u> efresh
Time (hh:mm:3%)	
11:04:48	<u>C</u> lose

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

System Messages
15 messages since last clear. 25/45/61 45:37:34 0000 0000 SYSMSG 000 25/45/61 45:37:34 0000 0000 SYSMSG 001 08/18/64 04:20:18 0000 0000 SYSMSG 016 08/18/64 04:20:42 0000 0000 SYSMSG 000 02/06/19 07:50:53 0000 0000 SYSMSG 016 02/06/19 07:51:18 0000 0000 SYSMSG 000 02/06/19 07:51:18 0000 0000 SYSMSG 016 02/06/19 08:03:06 0000 0000 SYSMSG 016 02/06/19 08:03:30 0000 0000 SYSMSG 016 02/00 19 08:03:30 0000 0000 SYSMSG 000 ** Unable to access this SYSMSG. ** ** Unable to access this SYSMSG. **
Cl <u>e</u> ar <u>C</u> lose

Change System Pas	sword
Enter Password:	
Re-Enter Password:	
Accept	<u>C</u> ancel

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	x
#35 Temporary Page Group	Х	X	Х
Architectural number, #, Architectural number, #, #			
#36 Page to all "Test" rooms only			x
#40* Enable Automatic Relay Operation		Х	Х
#40# Disable Automatic Relay Operation		x	x
#4144 Control Individual Relays			
* Operate Relay		x	x
# Release Relay		x	x
#50* Enable Automatic Time Schedule		X	Х
#50# Disable Automatic Time Schedule (will not reset at midnight)		x	Х
#5158 Time Schedule 18		Х	Х
* Activate Selected Event List		x	x
# De-activate Selected Event List			
#6162 Program Sources 12			
* ON	Х	x	x
# OFF	Х	x	x
#6566 Monitor Program Sources 12	Х	X	Х
If sources are not on via dial code or through the Administrative Software Tool, then the user will receive a busy tone.			

	Ac	cess Le	evels
	1	2	3
#71* Enable Call Forward after time-out	X	Х	Х
#71# Disable Call Forward after time-out	Х	Х	х
#72* Enable Immediate Call Forward	Х	Х	х
#72# Disable Immediate Call Forward	Х	Х	Х
#73 Call Pickup	x	Х	Х
#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		х	x
##2##2 Distribute Fire Alarm Tone		Х	х
##3##3 Distribute Emergency Time Tone		х	Х
##4##4 Distribute All Clear Tone		х	х
##5 Stop Emergency Tones		x	х
##9* Crisis COS Enabled		Х	Х
##9# Crisis COS Disabled		х	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

© 2019-2022 Valcom, Inc. Roanoke, VA

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.

Set System Date and Time

The system date and time may be set automatically updated via NTP, set in the Programming or Administrator Software Tools, or by use of dial codes (level 3 admin access required)

#91 HHMM Set System Time (Military Time)

#90 ZMMDDYY Set System Date (Z = day of week with Sunday = 1)

Answering Calls (Auto Answer Disabled)

Function	Procedure
To Answer a Call	Lift handset. (Point of origin of call can be announced in handset audibly).
	Press *.
	Speak to caller.
	Replace handset.
Examine Call Waiting List (Voice Announce Feature Enabled)	Scroll through the list by momentarily pressing the hookswitch (Flash) after each announcement. A beep will sound indicating the last call on the list.
Connect to a Specific Station on the Call Waiting	Lift handset.
List	Press hookswitch (Flash) until the desired station number is announced.
	Press *.
	Speak to caller.
	Replace handset.
Ignore Station on Call Waiting List	Press #.
	Receive dial tone.
	Dial desired station number.

Function	Procedure
Call Transfer	Press hookswitch (Flash) to place call on hold.
	Dial administrative to receive call.
	Third party answers.
	Press hookswitch (Flash); all parties connected.
	Hang up - or announce call and hang up.
Conference Calls	Press hookswitch (Flash) to place call on hold.
	Dial administrative to be included in call.
	Third party answers.
	Press hookswitch (hookswitch flash); all parties connected.
Bump Call in Progress (level 3 only)	Dial desired station #.
(Allows an Administrative Station to interrupt a call in progress and speak to desired station).	Receive busy tone.
	Press * 9.
	Connected to desired station.
Join Call in Progress (level 3 only)	Dial desired station #.
(Allows an Administrative Station to dial a busy station and ioin in conversation).	Receive busy tone.
, , , , , , , , , , , , , , , , , , ,	Press *8.
	Join conversation.
Join Queue (level 3 only)	Dial desired administrative station.
(Allows an Administrative Station to be added to the call queue of desired Administrative Station).	Receive busy tone.
	Press *7.
	Added to call of desired station.

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.

© 2019-2022 Valcom, Inc. Roanoke, VA

www.Valcom.com

VCMessageUtil			<u> </u>
1 0.00 2 0.00	sec	Preview	Load VC Image File
3 0.00 4 0.00	sec sec	Edit	Sano MC
6 0.00 7 0.00	sec sec	Delete	Image File
8 0.00 9 0.00 10 0.00 11 0.00	sec sec sec	Import WAV Export WAV	Read / Write VC Unit
Messages 1-63 cannot be edited or o	leleted. 0:00 au	idio used	Print VC Image Data
COM port - 4 minutes of audio	1:09:53 au	udio remaining	
 USB port - 70 minutes of audio 	0.0 %	full	Close

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.

VCMessageUtil			
Messages	0.00 sec	Preview	Load VC Image File
2 3 4 5	0.00 sec 0.00 sec 0.00 sec 0.00 sec	Edit	Save VC
6 7 8 9	0.00 sec 0.00 sec 0.00 sec 0.00 sec	Delete Import WAV	Image File
10 11 12 Messages 1-63 cannot b	0.00 sec 0.00 sec 0.00 sec	Export WAV	VC Unit
Target board type		0:00 audio used	Print VC Image Data
COM port - 4 minutes USB port - 70 minutes	of audio : of audio	4:21 audioremaining 0.0 % full	Close

Load ¥C Imag	je file				<u>? ×</u>
Look in: 🜔	VCMessageUtil	•	- 🔁	💣 🎹 -	
Driver					
FemaleVoid	:eR0200				
	(0200				
1					
File name:	I			Ope	n
Files of type:	VC Image files (*.vci)		-	Cano	el
	,				///

Choose a VC Image File and click Open.

X	¥CMe	ssageUtil - Female¥oic	eR0200.vci		_ I ×
Г	Mess	ages			
	1	One O).54 sec 👘 🔺	Preview	Image File
	2	Two C).54 sec 🛛 📃		
	3	Three 0).51 sec		
	4	Four 0).57 sec	Edit	
	5	Five 0).55 sec		Save VC
	5	Six U	J.73 sec	Delete	Image File
	16	Seven U	J.62 sec		
		Eight U	1.03 sec	Import WAV	
	10	Top 0).02 SEC) 59 sec		Read / Write
		Fleven 0	1.33 sec	Eurorth (A)	VC Unit
	15	Tuelue 0		Export WAV	
	Mess	ages 1-63 cannot be edited.	or deleted		
			01 00101000.		Print VC
	T	theard ture			Image Data
Γ	raige	(board type	0	48 audio used	iningo b aka
	0 0	OM port - 4 minutes of audio	1:08	58 audio remaining	
	Θu	SB port - 70 minutes of audi	0		
				1.2 % full	Close

N	/CMessageUtil - Female	VoiceR0)200 . v	ci		
Г	Messages					
	58 59	0.00 0.00	sec sec		Preview	Image File
	60 61 ANSI-S341-Evac	0.00 4.00	sec sec		Edit	Saug VC
	62 HiLlow tone 63 Warble tone 64	0.35	sec sec		Delete	Image File
	65 66 67 68	0.00 0.00 0.00 0.00	sec sec sec sec	-	Import WAV Export WAV	Read / Write VC Unit
	Target board type			0:48	audio used	Print VC Image Data
	COM port - 4 minutes of a	audio		1:08:58	3 audio remaining	
	USB port - 70 minutes of	audio		1.2	2 % full	Close

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".

Import g.711 file		? X
Look in: 🗀 Wav Files		
AllClear2	Emergency situation	🤊 т
Building Emergency	🔊 Event Message	🔊 V
🔊 🔊 Bus Loading	Intruder	🔊 w
🛃 Caribbean Music	🔊 lion2 - May 30, 2008 10.37.30	🔊 w
Emergency evacuation	🔊 lion - May 30, 2008 10.37.27	🤰 Y
Emergency Notification Test	🔊 rooster - May 30, 2008 10.36.57	
File name: Emergency situation	 	
Files of type: Wave files (*.wav)	▼ Cance	<u>ال</u>

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

NCM N	essageUtil - Female\	VoiceRO	200.¥c	i*		_ IX
Mes:	ages 200ms pause	0.20	sec	•	Preview	Load VC Image File
55 56 57 58	400ms pause 800ms pause	0.40 : 0.80 : 0.00 : 0.00 :	sec sec sec sec		Edit	Save VC
53 60 61 62 63	ANSI-S341-Evac HiLow tone Warble tone	0.00 0.00 4.00 0.39 0.10	sec sec sec sec sec		Delete	Read / Write
Targe	Emergency situa	9.03		0:57	Export WAV	Print VC Image Data
0 C © U	OM port - 4 minutes of a SB port - 70 minutes of a	audio audio	1	:08:49 1.4	audio remaining	Close

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.

Save VC Imag	e file as		<u>? ×</u>
Save jn: 🔀	VCMessageUtil		* 🎟 •
Driver FemaleVoice	eR0200 0200	Up (One Level
File <u>n</u> ame:	Robinette HS		<u>S</u> ave
Save as <u>t</u> ype:	VC Image files (*.vci)	•	Cancel

N VCM	lessageUtil - Female	VoiceR02	200.vci*		
C Mes	sages				OV beal
54	200ms pause	0.20 s	ec 🔺	Preview	Image File
55	400ms pause 800ms pause	0.40 s	ec		
57	ooonis pause	0.00 s	ec	Edit	
58		0.00 s	ec		Save VC
59		0.00 s	ec 🔜	Delete	Image File
61	ANSI-S341-Evac	0.00 s 4.00 s	ec		
62	HiLow tone	0.39 s	ec	[Import WAV]	D. LUMAN
63	Warble tone	0.10 s	ec		Read / Write
64 CE	Emergency situa	9.03 s	ec 🚽	Export WAV	VCON
					Print VC
- Targ	et board type		0.5	7 1 1	Image Data
	21		0:5	/ audio used	
	COM port - 4 minutes of a	audio	1:08:4	9 audio remaining	
. ⊙ L	JSB port - 70 minutes of	audio	1	4 % 6.11	Class
			1.	+ /o (uii	Close

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.

VC Unit Communications Unit: Unit: Bead Unit Write Unit Change system default setting Write one sector at a time Disable Timeouts Status Close Ready Ready





Write in process.

www.Valcom.com

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".

- N					
File	Configuration	Groups	Progra	amming	Optio
N	ew	Ctrl	+N	E,	
0	pen	Ctrl	+0		
C	lose			Print	
S	ave	Ctrl	+S		
S	ave As			Б	
C	onvert Files			┢┸━	Card 11
Lo	oad Voice Chip Fi	ile			ard 3
	dit Address Rook	,			
6	bando Bacquord				
	nange Password				
🖌 Vi	iew Startup Scre				
P	rint Reports	Ctrl	+P		
C	ommunications		•	lormal /	Emerg
E:	×it			iin 1	_
	Voice Chip F	hrase:	Nor	- ne	

Open					<u>? ×</u>
Look <u>i</u> n:	CMessageUtil		•	(= 🗈 📸 🖩	-
My Recent Documents Desktop	Driver FemaleVoiceR020 MaleVoiceR0200 Robinette HS	0			
My Documents		File Loade	ed The Voice	Chip file was succe	x essfully loaded.
My Network Places	File <u>n</u> ame:	}obinette HS ∕CImage files (*.∨ci)		•	<u>O</u> pen Cancel

www.Valcom.com

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 (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

© 2019-2022 Valcom, Inc. Roanoke, VA

www.Valcom.com

We'd like to hear from you!

Valcom, Incorporated 5614 Hollins Rd Roanoke, VA 24019 U.S.A. 1-540-563-2000 Need Assistance? Ask for Valcom Technical Support Regular Business Hours are Monday – Friday 8:30 a.m. to 7:30 p.m. EST Engineered, Built and Supported In The U.S.A!