Crestron Integration Spec Sheet

Partner: Speech Privacy System
Model: Speech Privacy Systems VoiceArrest 5535 and 6424 Family v1.1
Device Type: Sound Masking DSP

GENERAL INFORMATION:

SIMPLWINDOWS NAME:	Speech Privacy Systems VoiceArrest 5535 Family v1.1 Speech Privacy Systems VoiceArrest 6424 Family v1.1
CATEGORY:	Sound Masking DSP
VERSION:	v1.1
SUMMARY:	This module allows a Crestron 3-series processor to send volume levels, as well as receive real volume feedbacks, hardware and software information.
GENERAL NOTES:	This module provides the connection to a VoiceArrest DSP for sound masking.
CRESTRON HARDWARE REQUIRED:	3-series processor ONLY
SETUP OF CRESTRON HARDWARE:	Must be a 3-series processor ONLY. Please make sure the VoiceArrest.clz Simpl# compiled module is located in the same folder as your program or Simpl+ module.
VENDOR FIRMWARE:	Tested on a VoiceArrest Slave model S12-4ch, firmware 13h, hardware 04h. Tested on a VoiceArrest Master model ML48-8ch, firmware 01h, hardware 01h. On units of the 5535 family (4 output channels), firmware must be of 19d (13h) or more. On units of the 6424 family (8 output channels), firmware must be of 01d (01h) or more.

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	All previous firmware versions are not supported and will not work properly. To know your device's family and/or update the firmware, please refer to SoftdB, or the mandated certified designer/installer.
VENDOR SETUP:	Unit will accept only one (1) TCP/IP connection at a time, including SoftdB softwares and mobile apps.
	Once connected, the unit will refuse any subsequent TCP/IP connection. Programming should be done to connect the TCP/IP connection when going in the control page, and disconnect it when exiting the page.
	Although TCP/IP connections were proven very stable over a long period of time, best practices recommend adding a timeout of about 30 seconds on the control page to prevent any end user from staying in the page and block subsequent TCP/IP connections.
NETWORK RECOMMENDATIONS:	It is strongly recommended to work in a fixed IP or IP reservation network.
OTHER DETAILS:	Unit magic number (see feedbacks). To ensure all the unit information is correct, this must be of 5309h (\x53\x09), otherwise all unit information is invalid.
CABLE DIAGRAM:	N/A

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CONTROL:

Volume_*_up	D	Pulse to turn up volume of corresponding output (speaker)
Volume_*_down	D	Pulse to turn down volume of corresponding output (speaker)
AuxVolume_01_*_up	D	Pulse to turn up volume of corresponding auxiliary
AuxVolume_01_*_down	D	Pulse to turn down volume of corresponding auxiliary
Unit_Read_infos	D	Pulse to request hardware information
Unit_Read_volumes	D	Pulse to request volume levels
From_Device$	S	Serial signal to be routed from a TCP/IP connection

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FEEDBACK:

Volume_*_value_fb	A	Analog Value of current output volume level
AuxVolume_01_*_value_fb	D	Analog Value of current auxiliary volume level
Unit_Name_txt	S	Unit name
Unit_Mac_Address_txt	S	Unit MAC address
Unit_Project_Name_txt	S	Unit Project Name
Unit_Config_Version_txt	S	Unit Config Version
Unit_Unit_type_txt	S	Unit type
Unit_Master_Unit_Mac_address_txt	S	Master unit MAC address to which a slave can optionally connected to.
Unit_Master_Unit_Name_txt	S	Master unit name to which a slave can optionally connected to.
Unit_DSP_Firmware_Version_txt	S	Unit internal DSP firware version
Unit_DSP_Hardware_Version_txt	S	Unit internal DSP firmware version
Unit_Serial_Number_txt	S	Unit Serial number
Unit_Magic_Number_txt	S	Unit magic number. To ensure all the unit information is correct, this must be of 5309h (\x53\x09), otherwise all unit information is invalid.
To_Device$	S	Serial signal to be routed to a TCP/IP connection

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TESTING:

OPS USED FOR TESTING:	CP3, 3-series, v1.012.0017
SIMPL WINDOWS USED FOR TESTING:	4.03.20
SIMPL+ USED FOR TESTING:	4.03.16
DEVICE DB USED FOR TESTING:	70.00.004.00
CRESTRON DB USED FOR TESTING:	53.05.005.00
SYMBOL LIBRARY USED FOR TESTING:	973
SAMPLE PROGRAM:	Speech Privacy Systems VoiceArrest Example Program v1.0.smw
REVISION HISTORY:	V1.0 – Initial Release V1.1 – Protocol enhancements