

AudioLogConverter instructions

1. Setup Audio Log configuration file

a. The overview of configuration as below, need set this file for each project.

```
[Common]
SRCFILE_PATH = C:\Work\Log_data\data log\result per cycle
LIMITSFILE_PATH = C:\Work\Log_data\data log\limit
DESTFILE_PATHNAME = C:\Work\Log_data\data log\amzAudioToKazam.csv

SPK_COUNT = 2
MICS_COUNT = 4
MICS_TEST_ITEMS = Mics_PreCal_FR,Mics_PreCal_THD,Mics_PreCal_THD_N,Mics_PreCal_LinearScaleFR,Mics_Phase,Mics_PreCal_FRAverage,Mics_PreCa
SPK_TEST_ITEMS = Spk_FR,Spk_PerRB,Spk_RB,Spk_Sensitivity,Spk_Sensitivity2kHz,Spk_Spectrum,Spk_THD

#content delimiter in limit/results files
CONTENT_DELIMITER = ,

#valid column index in limit/results files
VALID_COLUMN_INDEX = 0

[Limits]
#test item = limit file name (1 file for each mics/spk or all of mics/spk in 1 file)
Mics_PreCal_FR = MicsLimitPreCalFR.txt
Mics_PreCal_THD = MicsLimitTHD.txt
Mics_PreCal_THD_N = MicsLimitTHD_N.txt
Mics_Phase = MicsLimitPhase.txt
Mics_PreCal_FRDiffer = MicsLimitPreCalFRDiffer.txt
Mics_PostCal_FR = MicsLimitPostCalFR.txt
Mics_Seal = SealLimitFR.txt

Spk_FR = SpkLimitFR.txt,RSpkLimitFR.txt
Spk_PerRB = SpkLimitPerR&B.txt,RSpkLimitPerR&B.txt
Spk_RB = SpkLimitR&B.txt,RSpkLimitR&B.txt
Spk_Sensitivity = SpkLimitSensitivity.txt,RSpkLimitSensitivity.txt
Spk_Sensitivity2kHz = SpkLimitSensitivity.txt,RSpkLimitSensitivity.txt
Spk_Spectrum = SpkLimitSpectrum.txt,RSpkLimitSpectrum.txt
Spk_THD = SpkLimitTHD.txt,RSpkLimitTHD.txt

[Results]
#test item = resut file name (1 file for each mics/spk or all of mics/spk in 1 file)
Mics_PreCal_FR = MicsDataPreCalFR.txt
Mics_PreCal_THD = MicsDataTHD.txt
Mics_PreCal_THD_N = MicsDataPreCalTHD+N.txt
Mics_Phase = MicsDataPhase.txt
Mics_PreCal_FRDiffer = Mics1DataPreCalFRDiffer.txt,Mics2DataPreCalFRDiffer.txt,Mics3DataPreCalFRDiffer.txt,Mics4DataPreCalFRDiffer.txt
Mics_PostCal_FR = MicsDataPostCalFR1-4.txt
Mics_Energy = MicsDataEnergy.txt
Mics_Seal = SealDataFR.txt
Mics_PreCal_LinearScaleFR = MicsDataPreCalLinearScaleFR.txt
Mics_PreCal_FRAverage = MicsDataPreCalFRAverage.txt

Spk_FR = LSpkDataFR.txt,RSpkDataFR.txt
Spk_PerRB = LSpkDataPerR&B.txt,RSpkDataPerR&B.txt
Spk_RB = LSpkDataR&B.txt,RSpkDataR&B.txt
Spk_Sensitivity = LSpkDataSensitivity.txt,RSpkDataSensitivity.txt
Spk_Sensitivity2kHz = LSpkDataSensitivity2kHz.txt,RSpkDataSensitivity2kHz.txt
Spk_Spectrum = LSpkDataSpectrum.txt,RSpkDataSpectrum.txt
Spk_THD = LSpkDataTHD.txt,RSpkDataTHD.txt
```

b. [Common] section

SRCFILE_PATH : The source files(native log files of each circle generated by soundcheck) path;

LIMITSFILE_PATH : The limit files path used by soundcheck;

DESTFILE_PATHNAME: The path and name that has Kazam format is converted from native log files.

SPK_COUNT: The number of speakers, if not need test speaker, set to 0 or comment out

MICS_COUNT: The number of mics, if not need test microphone, set to 0 or comment out

MICS_TEST_ITEMS: The test item names of mics, these names also will be written into daily log as test name, if not need test microphone, comment out

SPK_TEST_ITEMS: The test item names of speaker, these names also will be written into daily log as test name. , if not need test speaker, comment out

CONTENT_DELIMITER: The delimiter used in native log file, if its tab character, can set to \t

VALID_COLUMN_INDEX: The valid column index in limit/results files, 0, 1, 2, 3.....

c. [Limits] section

The key name must be same in `SPK_TEST_ITEMS` or `MICS_TEST_ITEMS`, the value description as below:

Test item name = limit file names (1 file for each mics/spk or all of mics/spk in 1 file)

For example:

Mics_PreCal_FR = MicsLimitPreCalFR1.txt, MicsLimitPreCalFR2.txt, MicsLimitPreCalFR3.txt, MicsLimitPreCalFR4.txt

1. Mics_PreCal_FR is test item name that in **MICS_TEST_ITEMS**
2. The limit files of this test item, if only 1 limit file shares the same limit for all mics, can set as below:

Mics_PreCal_FR = MicsLimitPreCalFR.txt

If the test item has no limit, don't need set it in [Limits] section.

d. [Results] section

The key name must be same in `SPK_TEST_ITEMS` or `MICS_TEST_ITEMS`, the value description as below:

Test item name = resut file name (1 file for each mics/spk or all of mics/spk in 1 file)

For example:

Mics_PreCal_FR = MicsDataPreCalFR.txt

1. Mics_PreCal_FR is test item name that in **MICS_TEST_ITEMS**
2. The result files of this test item, this example indicates the results of all mics are in 1 file. if the results are in separate file ,can set as below:

Mics_PreCal_FR = MicsDataPreCalFR1.txt, MicsDataPreCalFR2.txt,
MicsDataPreCalFR3.txt, MicsDataPreCalFR4.txt

2. How to use TST_ConvertAudioLog.vi

- a. Add TST_ConvertAudioLog.vi into the test plan sequence after audio tests done, as below:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	CheckValu	8b646e267c7497e8c6d43d59d6dd4685d												
2	Index	Enable	PREREQ	Test Name	Test Vi Name	LSL	USL	Unit	Lin	Sn	Pr	Dyr	Cas	Input Parameter
12		1	1	Wait10	TST_Wait					1	0	YES	Wait=100	
13		2	1	Audio Log	TST_ConvertAudioLog	PASS	PASS			1	0	Slots_info=SN\configfile_pathname=C:\Work\Lab126-ame-kazam\trunk\Project\Library\ConvertAudioLogToKazam\bin\audioconfig_cupcake.ini		

There are 2 parameters passed into TST_ConvertAudioLog.vi, one is slot SN, the other is the path name of configuration ini file.

- b. Set shell_factory.csv file as below:

2		RELEASE_I_UDP=0.01	
3	SEQ	Resource_VI_NAME	CONTROL_STRING
4		Sequence_sys_SequenceCFGRea	TestPlan=DemoSequence1.0.0.1.csv WaitUntilDone=True
5		Sequencer_sys_SequenceLaunch	SLOTS=1 SeqEngineName=TestSequece.vi WaitUntilDone=True
6		Display_GUI_Operator.vi	FP_Show=True RefreshTime=10000 Real-time=0
7		Datalog_amz_log_Daily.vi	LOG=FINAL APPEND_LOG=C:\Work\Log_data\Ensky_audio\amzAudioToKazam.csv Module=WAN[3/3]:1AF/155;WTN[3/3]:4RU/919-Else=WIFI
8		Datalog_amz_log_single.vi	LOG=FINAL Module=WAN[3/3]:1AF/155;WTN[3/3]:4RU/919-Else=WIFI
9		Datalog_amz_log_timelog.vi	LOG=FINAL Module=WAN[3/3]:1AF/155;WTN[3/3]:4RU/919-Else=WIFI
10	EOF		

Add APPEND_LOG parameter as the input parameter of log daily vi, APPEND_LOG include file path and name, **it must be same with DESTFILE PATHNAME in configuration ini file.**