Installation Acoustic Test Host PC

You Need

PC running windows 10
SoundCheck Software + Hardware key
Script package “skos.zip”

Installations

Install Python 3.x

Download and install

Install skos.zip (includes test scripts)

1. unzip skos_rX.zip
2. move it to c:/
3. create folder c:/sc_data

Install ssh

1. Enable ssh
   https://www.howtogeek.com/336775/how-to-enable-and-use-windows-10s-built-in-ssh-commands/
2. move folder “.ssh” from c:/skos/ to home folder (example c:/homes/”userName”/

Change ethernet settings in Host PC

set ip to fix ip to 10.10.10.23 on the dedicated ethernet card that will connect to the switch

Install Sound Check

1. Connect SoundCheck hardware and microphones
   a. Connect the 4x4

b. connect GRAS pre-amp and set gain to 20dB on all 4 channels
c. Connect top reference microphone to input channel 4
d. Connect bottom left (looking into the chamber) reference microphone to input channel 2
e. Connect bottom right (looking into the chamber) reference microphone to input channel 3
f. Connect reference speaker to output channel 1

2. Install the SoundCheck software
    a. Install the software
    b. move the vi files from c:/skos/vi/ into folder SoundCheck > System > Custom VI
    c. add and calibrate mics
        i. go to SoundCheck > Setup > Calibration > Input,
        ii. add signal path "**refMic1**"
        iii. connect it to input hardware channel "Input 2" on the 4x4
        iv. set Gain to 20dB
        v. add input calibrated device entering your reference microphone 1 type and serial number
        vi. set units to "dB", "1", "Pa"
        vii. set "V/Pa" in the drop down
        viii. select "Microphone Calibration"
        ix. calibrate by clicking "calibrate device"
    d. repeat (b) above for top mic, name signal path "**envMic**", connect it to input hardware channel "Input 4" on the 4x4
    e. repeat (b) above for bottom right (looking into chamber) reference microphone, name signal path "**refMic2**", connect it to input hardware channel "Input 3" on the 4x4
    f. add and calibrate reference speaker
        i. go to SoundCheck > Setup > Calibration > Output
        ii. add signal path "**refSpk**"
        iii. connect it to output hardware channel "Output 1" on the 4x4
        iv. calibrate using Calibration Sequence "Speaker Calibration" and input signal paht "envMic" from drop down list
        v. calibrate 100Hz to 22kHz
    g. enable TCP/IP server at port 4444 in SoundCheck > Edit > Preferences > Advanced
    h. make a custom step in SoundCheck by right clicking on "Custom" and naming it "System Hidden".