CHIRP\_En\_Win\_v2\_20210416 Release Notes

# CHIRP Overview

After outlining the history of the product releases, this document provides instructions on how to install, configure, and run the full release for Windows.

# CHIRP (English-only) History

## V2 (Release 20210416)

This is a full release of the “English-only” version of CHIRP for Windows. It contains an English-only version of CHMITE. (Future versions may support other languages.) This release is recompiled to allow use with Matlab Compiler Runtime version 9.9 (R2020B).

# Pre-requisites

## matlab compiler runtime

The CHIRP software is implemented in matlab. However, you do not need to have matlab installed to run CHIRP. Instead, you need to install the correct version of the matlab compiler runtime (mcr). (Even if you do have matlab, you still need to install the correct version of mcr.)

To download the correct version of mcr, follow these steps:

1. Go to <http://www.mathworks.com/products/compiler/mcr/index.html>
2. Click on the 64-bit version of R2020b for Windows.
3. After the download completes, install the mcr using default settings.

# CHIRP Installation

## Full

To install the full release of CHIRP (English-only) 20181018 for Windows, download the zip file onto your computer and extract it into the directory of your choice (one that you may need to share), as follows:

* Start by moving the zip file into the directory of your choice. If more than one user on your computer will be using this product, this should be a folder that you are willing to share.
* Extract the zip file. It will create a new CHIRP\_En folder. In this document, we will refer to this CHIRP\_En folder as the “CHIRP Root”.
* Again, if more than one user on your computer will be using this product, share the “CHIRP Root” folder with that user. Users will need read/write permission to this shared folder. In Windows 7, for example, sharing can be enabled by right-clicking on the folder and following the option for “Share with”.

# CHIRP Configuration

## CHMITE Listener List

Before running CHMITE, edit the text file CHMITE\_ListenerUIDs.txt to add one or more listener userids—one per line. You cannot assign sessions to a listener until that listener’s userid has been added to this list. This text file is in the product’s Config folder i.e. in CHIRP\_En/CHMITE/Config.

# Running CHIRP

## Run CHMITE

All the CHMITE executables are in the CHMITE folder. After the first time you run each script, you can just double-click the file. **However, note that the first time you run each script, you will have to give permissions to run a program from an unknown developer.** You may receive an error and be prompted to click a button for more information. You should give permissions to allow the programs to run.

CHMIT-E command scripts are as follow:

* CHMITE\_Record.exe to record a subject’s session. A session is identified by a timestamp.
* CHMITE\_Assign.exe to assign a session’s wav file(s) to one or more listeners.
* CHMITE\_Eval.exe enables the listener to enter text of what he or she heard per assigned wav file. The listener can stop at any point and pick up where s/he left off.
* CHMITE\_Report.exe generates a csv report, including scores from all listeners. This csv file is stored in the CHMITE/Reports folder with a unique filename. Possible scores are ‘Correct’, ‘Incorrect’, or ‘NR’. A ‘Correct’ score means that the listener’s text matched either the intended text or one of its homonyms.

## How to Assign Listeners

To assign recordings from one or more speakers to a listener, open the run\_CHMITE\_Assign.Command script. The program will identify recordings that are available for rating on the computer (in the Recordings directory). Find the SubjectID that you wish to assign in the leftmost column, then click on the “Assign to” dropdown box for that row, and click on the desired listener’s username (as defined above). Click the SUBMIT button in the bottom right corner to confirm the assignment. When assignments have been made, click QUIT button in the bottom right corner to exit the program.

## How to Eval

When listeners are ready to complete their transcriptions, they should click the run\_CHMITE\_Eval.exe file and enter their username. Listeners should be ready to begin transcribing, as they may listen to each sample only once.

When entering the text per recorded wav file, there are some tricks you should know. First, after entering the text (using the appropriate keyboard), just hit the ENTER key. (Wait until the end of the recording to do so; see issues below.) Second, if you want to override the dictionary check, add a period to the end of the word. (This period will be stripped off. It just allows you to override the dictionary.) Finally, if the text fails the dictionary check, make sure to close the warning dialog box before revising the text. (See issues below.)

## Files

CHIRP stores information in files. For example, when a subject’s session is assigned to a user, a “message” file is written to the CHMITE/Tasks/AssignedTasks folder. When a listener finishes evaluating all of the wav files in that session, CHMITE moves the message file to the CHMITE/Tasks/CompletedTasks folder. So, one should not open or move or delete any CHIRP files outside the CHIRP program; otherwise, results may be inconsistent.

## Logs

When running a matlab program, if there is an unhandled exception, an error message appears on the matlab command line. For a program running in the mcr, ther command line is in the output of the command script. In addition, the matlab diary is used to capture errors and information that may be useful for debugging. The Logs folder stores the diary file per user. If you wish, you can clean up by removing the diary files (if the program is not running).

# Issues

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| ***Short Description*** | ***Long Description*** | ***Fix*** |
| Response ENTERed too soon | When running the CHMITE\_Eval program, the listener must wait until the recording has finished before entering the response (i.e. before pressing ENTER); otherwise, the playback for the next trial may be missed. At this time, there is no replay. | In this release, the listener must make sure to wait until the reording has ended before ENTERing the response. |
| Eval pop-up gets hidden | When running the CHMITE\_Eval program, the listener may enter a response that is not in the dictionary. A warning dialog box will pop up. Make sure to click OK to close that warning dialog box before revising the text; otherwise, the pop-up will be hidden behind the main screen yet still waiting for a response. | In this release, the listener must make sure to close the warning dialog box before revising the text. If the listener did not hear the word, s/he may enter NR. |
| Slow startup | Each CHMITE executable is slow to startup. This is because it uses the matlab runtime environment. So, startup is slow. |  |
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