

# CCi-MOBILE Research Interface for Cochlear Implant and Hearing-Aid Research

## Remote Experimentation Overview

Table 2. Description of Experimental Protocols with CCI-MOBILE Research Platform*		Experimenter and Participant Requirements	Experiment Test Date
<b>Traditional Psychoacoustic Experiment</b>	Hosted either in a sound booth or in-field at the University of Texas at Dallas Cochlear Implant Laboratory; the experiment is driven by research personnel; the participant is using CCI-MOBILE* either in real-time or pre-processed audio is presented to the participant (graphical user interface, sound booth, free-field, app, etc.)	<b>Experimenter and participant are present in the same location and present at the same time</b> <u>Experimenter: In-person</u> <u>Participant: In-person</u>	<u>Scheduled</u>
<b>Remote Experiment</b>	Hosted virtually: face-to-face digitally using online meeting platforms (Zoom, Teams, Skype, etc.) using a provided laptop with pre-loaded experiment data and CCI-MOBILE* routines; experiment is driven by the research personnel using 'Remote Control' feature of the provided laptop; participant communicates in real-time with experimenter virtually or responds to a graphical user interface on the provided laptop/tablet based on various tasks***	<b>Experimenter and participant are not present in the same location, but present at the same time</b> <u>Experimenter: Virtually (face-to-face online)</u> <u>Participant: Virtually (face-to-face online)</u>	<u>Scheduled</u>
<b>Online Experiment via CCI-Evaluate ("CCI-Cloud")</b>	Hosted online using Amazon WorkSpaces ("CCI-Cloud"); participants log onto virtual testing machine where experimenter has loaded the self-paced experiment/graphical user interface with instructions; audio (can be processed offline or in real-time) is presented through loudspeakers or Bluetooth to the implant processor and participants respond to the graphical user interface based on various tasks***	<b>Experimenter and participant are not present in the same location nor present at the same time</b> <u>Experimenter: Not-present</u> <u>Participant: Online-only (not virtual)</u>	<u>Self-paced (Can be taken on participant's own time)**</u>
<p>*The CCI-MOBILE Research Platform is a research tool that enables direct connect to the participants implant (magnetic receiver) using a wired connection from the laptop (provided) to the participant, bypassing the use/need of the clinical processor</p> <p>**Can be scheduled in the event multiple participants are enrolled in the experiment as Amazon WorkSpaces can only host one participant at a time with specific username/password credentials; in some cases, individual credentials and Workspace can be created for individual participants so scheduling is not required</p> <p>***See the experimental description located on the consent form</p>			

