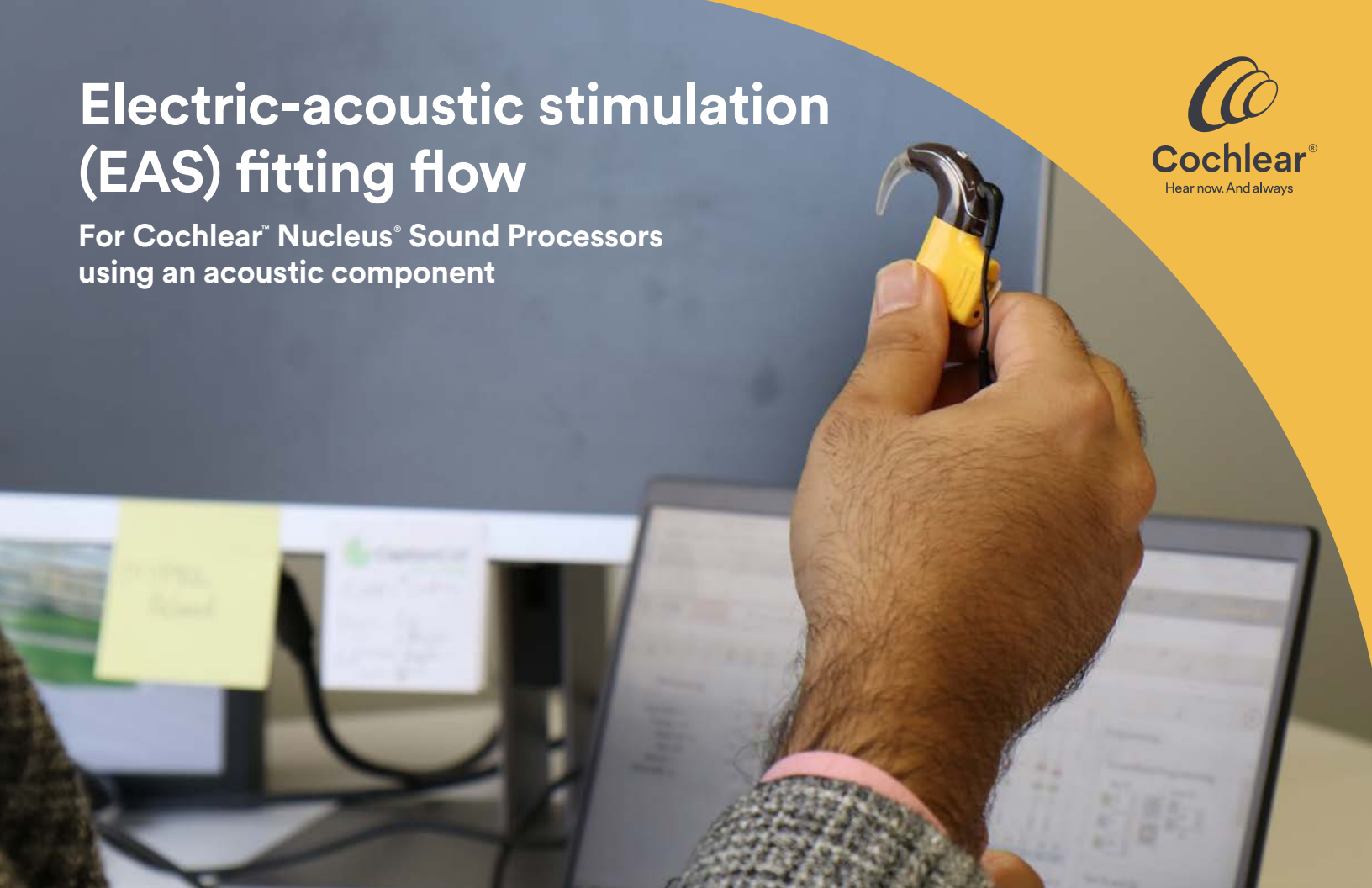


Electric-acoustic stimulation (EAS) fitting flow

For Cochlear™ Nucleus® Sound Processors using an acoustic component




✓ Indications

Measure postoperative residual hearing thresholds to determine if indications are met

- Measure air conduction thresholds including 125, 250, 500, 750, 1000, 2000 and 4000 Hz
- Measure bone conduction thresholds. An air-bone gap may impact fitting recommendations.
- EAS fitting should be considered when postoperative thresholds in the implanted ear are 70 dB HL or better through 500 Hz
 - If thresholds are greater than 70 dB HL, EAS fitting may be considered at clinician discretion*

✓ Get started

Connect acoustic components

- If no air-bone gap is present, select the appropriate receiver and dome to fit the acoustic component at initial activation
- If an air-bone gap is present, postpone fitting until 1 month follow-up to allow this to resolve
- For earmold use, take the impression at initial activation. Earmold may be ordered from your preferred business partner and fit at the 1 month follow-up.
- To connect the acoustic component, remove the earhook and the plug
 -  **Refer to the manual for details**

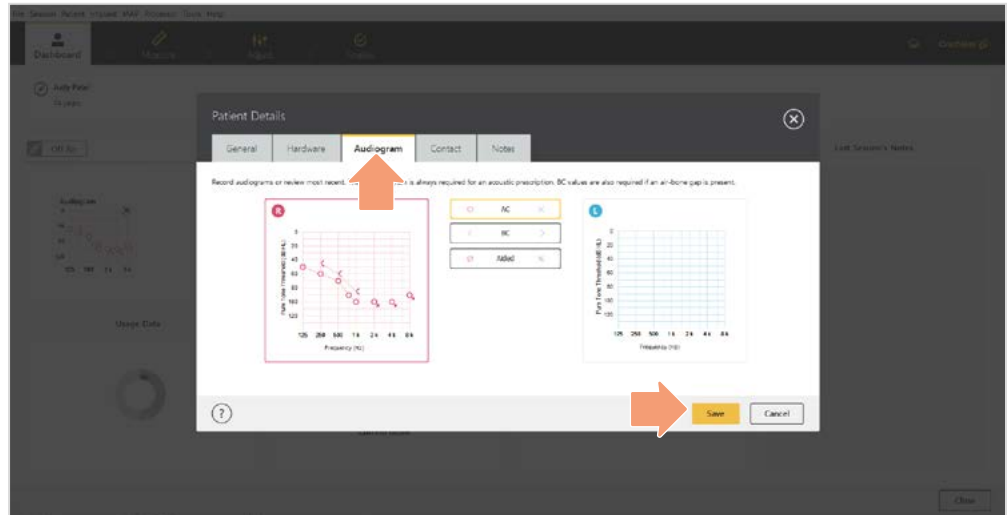


✓ Programming guidelines

1

Enter the audiogram into Custom Sound® Pro

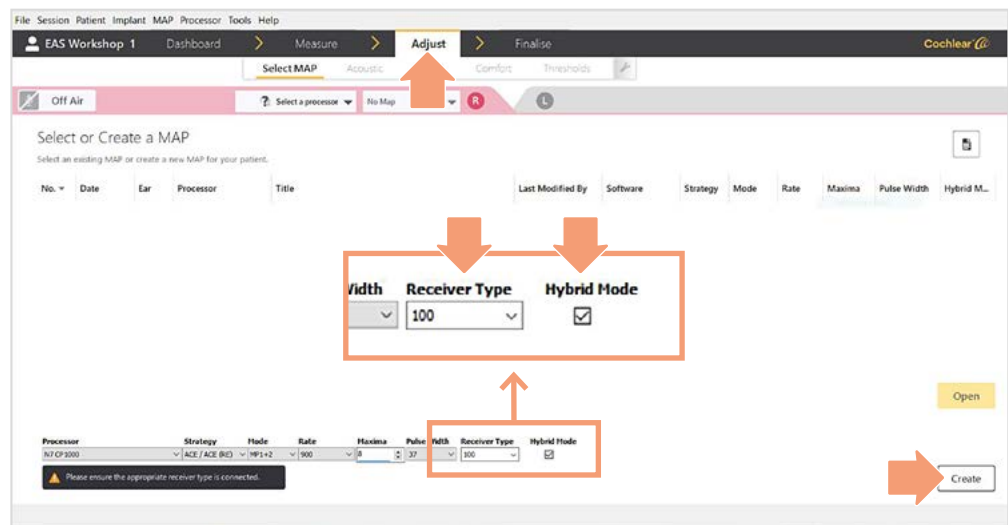
- ❑ Select “Patient” and then “Patient Details” at the upper left corner
- ❑ Select the “Audiogram” tab and enter air and bone conduction thresholds
- ❑ Select “Save”



2

Create MAP

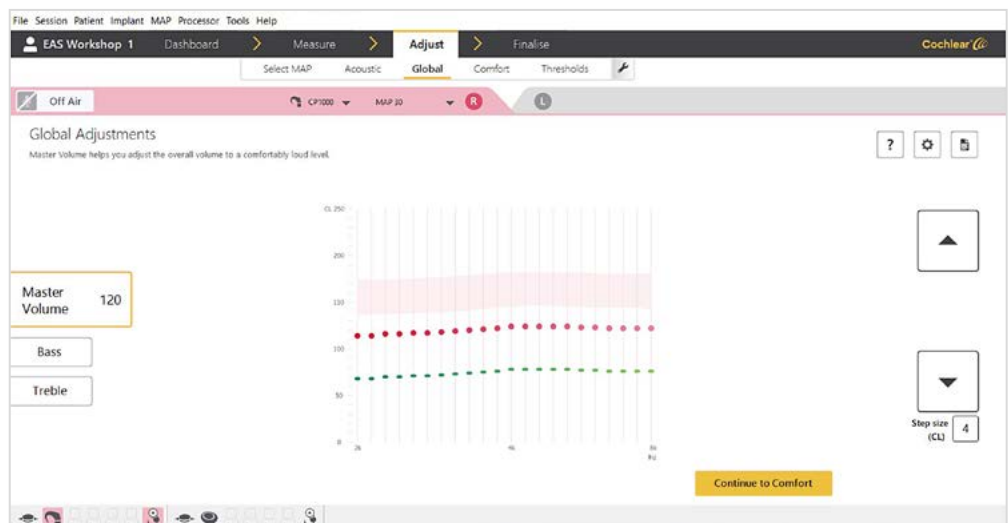
- ❑ Select the “Adjust” tab
- ❑ Select “Hybrid mode” checkbox at the bottom of the fitting screen
- ❑ Select the appropriate receiver strength; 100 is recommended for most patients
- ❑ Select “Create” in the bottom right corner of the fitting screen



3

Program electric stimulation

- ❑ For more information on programming with electrical stimulation, please see the Cochlear Implant Reference Guide found in the Help section in the Custom Sound® Pro software



4

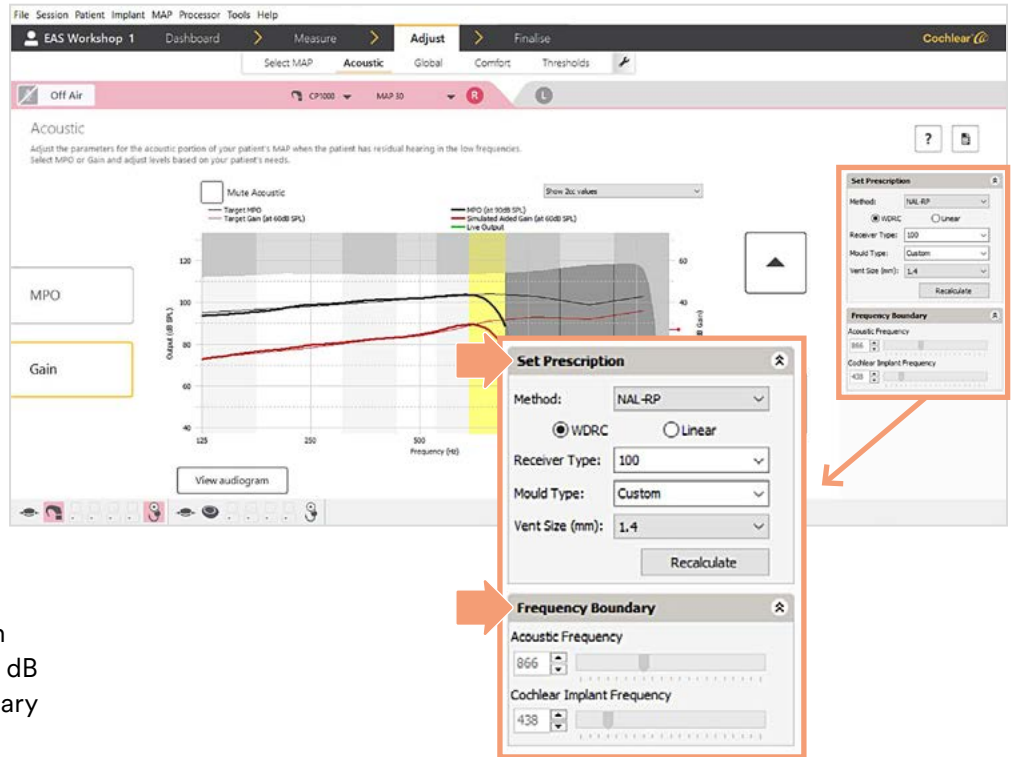
Program acoustic stimulation

Set Prescription with the following preferred settings:

- Method: NAL-RP
- Compression type: WDRC
- Receiver type: 100
- Mold type: Custom
- Vent Size (mm): 1.4
- Select “Recalculate”

Set Frequency Boundary with the following preferred settings:

- Acoustic boundary: no higher than 866Hz (if hearing is better than 70 dB below 500 Hz, set acoustic boundary no higher than 1000 Hz)
- Cochlear implant frequency: 438 Hz (if hearing is poorer than 70 dB below 500 Hz, lower the cochlear implant frequency)

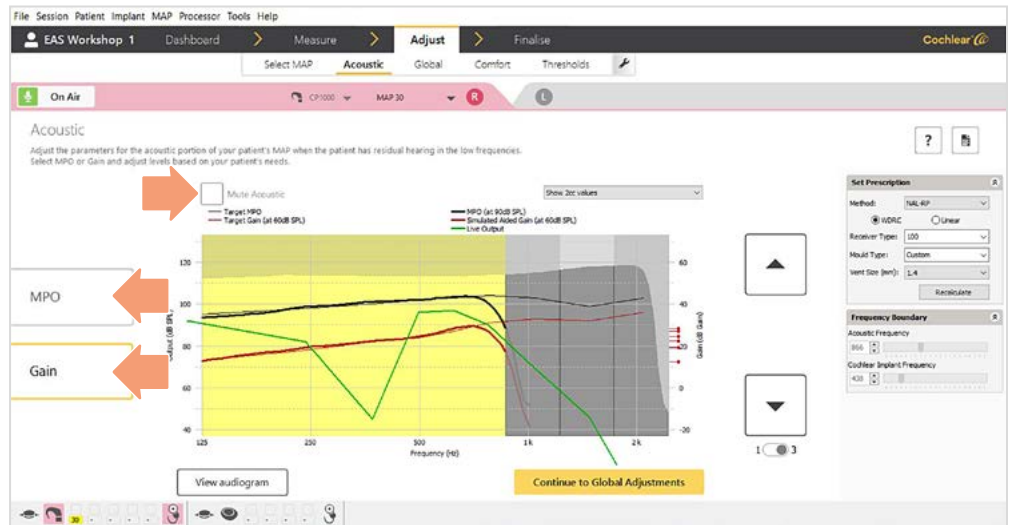


5

Optimize acoustic stimulation

Verification of acoustic component is recommended via real ear measures (REM) or soundfield thresholds if REM are not available

- Adjust “Gain” or “MPO” if indicated by verification results
- If acoustic targets cannot be met due to degree of hearing loss, EAS is not the right solution for this patient. Close MAP and create new MAP with electric stimulation only.
- If balancing loudness between acoustic and electric stimulation is required, remove coil for acoustic only stimulation and select “Mute Acoustic” for electric only stimulation

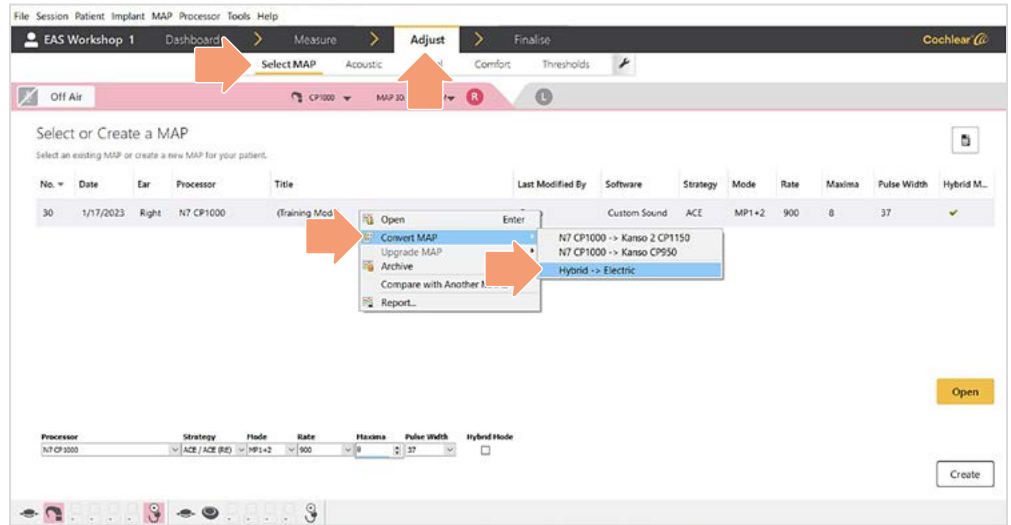


6

Create alternate MAP

Create a full electric MAP as an alternate in case of change in hearing between clinic visits

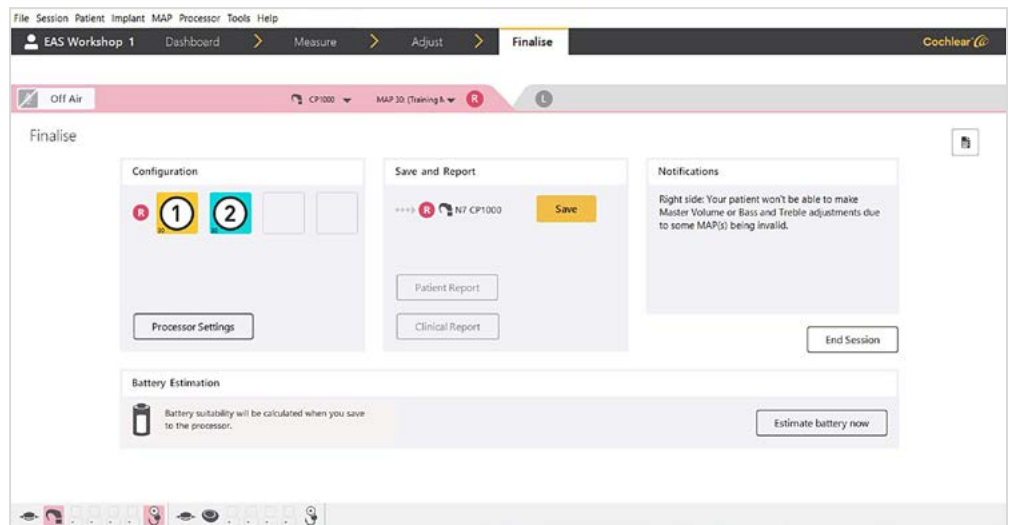
- ❑ Go to “Adjust” and then “Select MAP” tab
- ❑ Right click on the MAP number, Select “Convert MAP” and select “Hybrid -> Electric”



7

Finalize

- ❑ Select “Finalise” tab to save and download programs to the processor
- ❑ Configure sound processor with primary EAS MAP and backup full electric MAP
- ❑ Counsel patient about appropriate time to use full electric MAP if necessary



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The Acoustic Component should only be used when behavioral audiometric thresholds can be obtained and the recipient can provide feedback regarding sound quality. The Hybrid L24 Implant is approved in the US for adults ages 18 and older.

This material is intended for health professionals. If you are a consumer, please seek advice from your health professional about treatments for hearing loss. Outcomes may vary, and your health professional will advise you about the factors which could affect your outcome. Always read the instructions for use. Not all products are available in all countries. Please contact your local Cochlear representative for product information.

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