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On a Mac

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- Click Print
- Click dropdown menu on the right “preview”
- Click layout
- Choose # of pages per sheet from dropdown menu
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- Click Print
- Choose # of pages per sheet from dropdown menu
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A solid red square is located in the bottom left corner of the page.

Next-era hearing

Every step of the way

Erica Koehler, AuD

GN Hearing



Outcomes

After this course, participants will be able to...

- Identify which rechargeable hearing aid styles were added to the ReSound Nexia family
- Name a launch feature that impacts each part of the hearing aid fitting process
- State a fine-tuning tip provided in ReSound Smart Fit 1.18

Overview

- Intro
- Hearing Aid Selection
 - Line extension offerings
- Hearing Aid Dispensing
 - Eco-friendly packaging
- Hearing Aid Fitting
 - Remote Service Consent
 - AutoREM
 - Reports
- Hearing aid Fine-tuning
 - Awareness of vent impact and tools within SmartFit
 - Gain handle mapping changes
 - First Time User – Onboarding Profile
- Lightning Quiz
- Summary

Hearing Aid Selection



Now available in all styles

Custom



NXIC

CIC

10A battery



NXITC-DWC

ITC

Rechargeable



NXITE-DWC

ITE

Rechargeable

RIE



NX60S-DRWC

Micro RIE

Rechargeable



NX61-DRW

Standard RIE

312, 13 battery



NX62-DRW



BTE



NX77-DWC

BTE

Rechargeable



NX88-DWC

PBTE

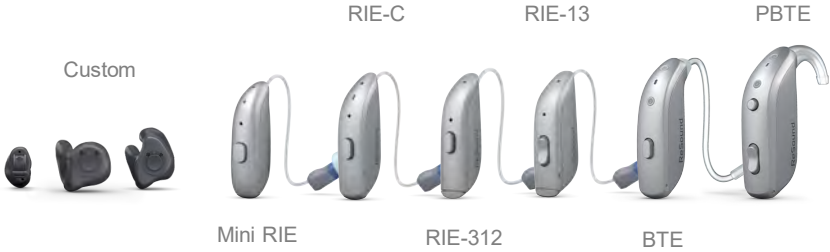


In technology levels 9,7,5

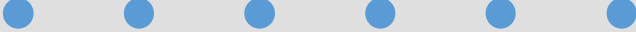
Resound OMNIA

ReSound Nexia

Form factors



MFfi/Android streaming



Bluetooth LE Audio / Auracast



Telecoil



CROS transmitter



TapControl



Wireless accessories



TV-Streamer+
(Bluetooth LE Audio)



Resound Nexia Features



microRIE



RIE 312



RIE 13



BTE RHI



PBTE RHI



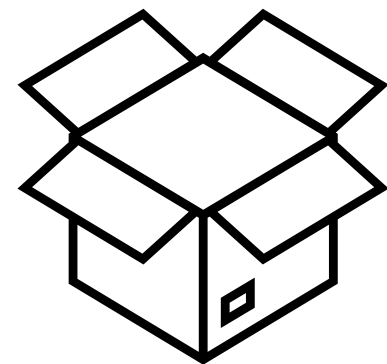
ITE/ITC RHI



CIC nonWL

	microRIE	RIE 312	RIE 13	BTE RHI	PBTE RHI	ITE/ITC RHI	CIC nonWL
Bluetooth LE Audio	✓	✓	✓	✓	✓	✓	✗
Auracast	✓	✓	✓	✓	✓	✓	✗
TV Streamer+ (Incl. OneTouch Pairing)	✓	✓	✓	✓	✓	✓	✗
CROS/BiCROS	✓ <i>CROS transmitter and receiver</i>	(✓) <i>CROS receiver</i>	(✓) <i>CROS receiver</i>	✗	✗	✗	✗
TapControl	✓	✗	✗	✗	✗	✗	✗

Hearing Aid Dispensing



Unboxing... it's something to think about



Oxford definition: *an act or instance of removing a newly purchased product from its packaging and examining its features, typically when filmed and shared on a social media site.*

Great things come in 100% recyclable packaging

47%

Reduced CO2 emissions compared to previous

80%

Target reduction of carbon emissions in in-house operations by 2030



Towards a circular economy by giving more products a second life through repair and recycling



Hearing Aid Fitting

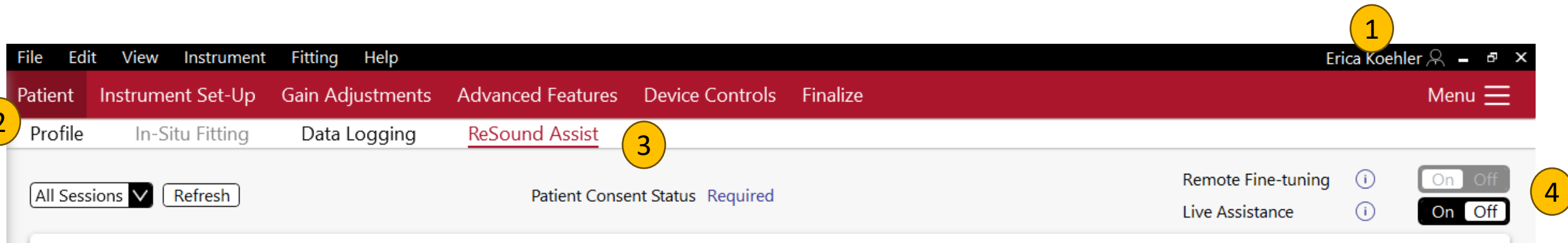


Smart Fit 1.18 enhancements

- Remote consent from fitting software to app
- AutoREM additions
- Patient and clinician reports

Remote Assist Consent

- Required for services to use the cloud
- While data is not stored it is transferred



1. Log into GNOS
2. Patient tab
3. ReSound Assist tab
4. Select appropriate options for assistance

Consent previous flow



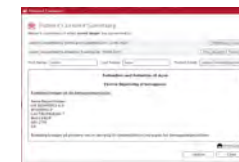
- 1 Enable Remote Fine Tuning



- 2 Print consent for patient signature



- 3 Sign consent form



- 4 Grant consent on behalf of patient

OPTIONAL



- 5 Download App and pair HIs



- 6 Ready for Remote Fine Tuning

Challenges with steps 2 thru 4

- Time consuming
- Fitting software is HCP facing

Consent current flow



- 1 Enable Remote Fine Tuning

OPTIONAL



- 2 Download App and pair HIs

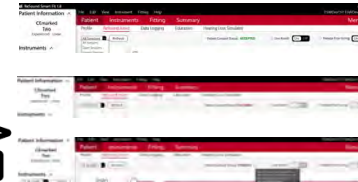


- 3 Grant consent in App



- 4 Ready for Remote Fine Tuning

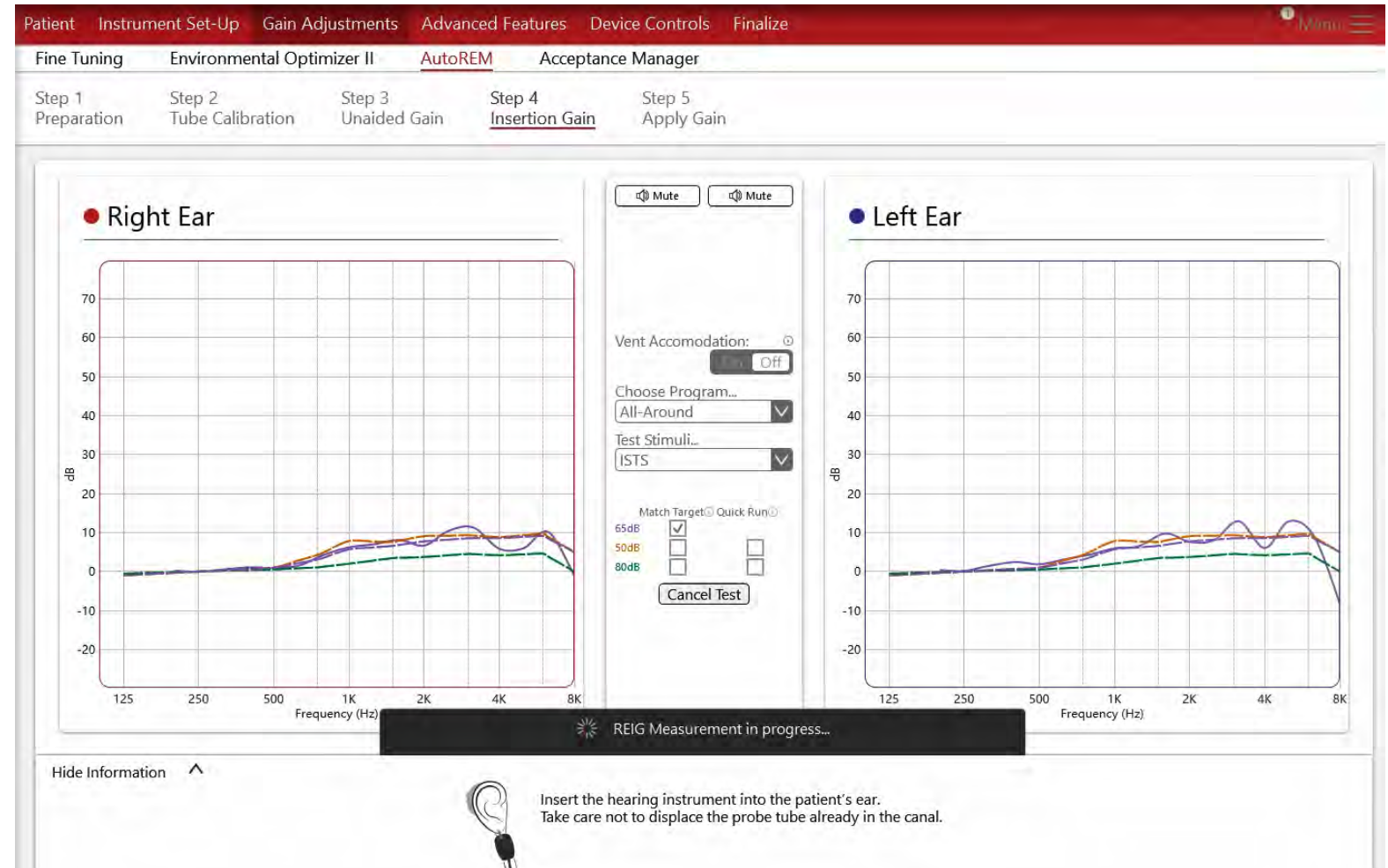
Steps 2 thru 4 removed placing the patient consent in the hand of the patient via the app while clinician can monitor status from the software



Consent received

AutoREM enhancements

- Affinity Suite 2.18.0
 - Compact 4
- Maestro 1.23.0
 - Trumpet



Patient Information ^

mild
N2
First Time User

Instruments ^

Noahli... Connect i

Right
Connected

Left
Connected



NX962-DRW
RIE 2 MP Receiver

Mute



NX962-DRW
RIE 2 MP Receiver

Mute

Media Player v

« Collapse Sidebar

Patient Instrument Set-Up Gain Adjustments Advanced Features Device Controls Finalize

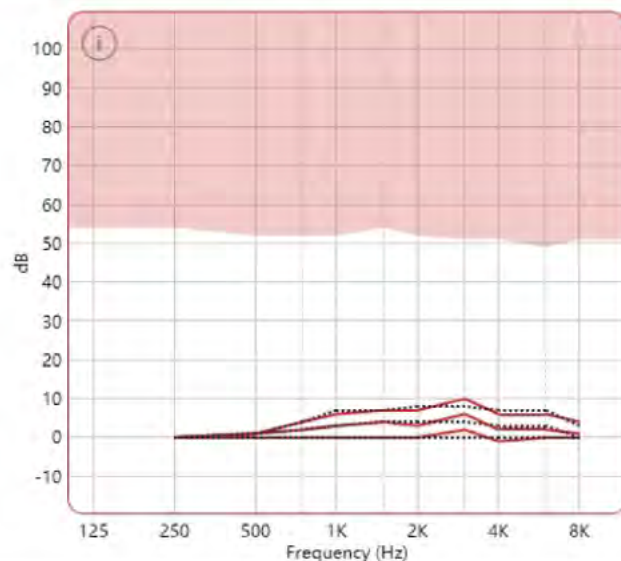
Fine Tuning

Environmental Optimizer II

AutoREM

Acceptance Manager

Menu



Mute Mute

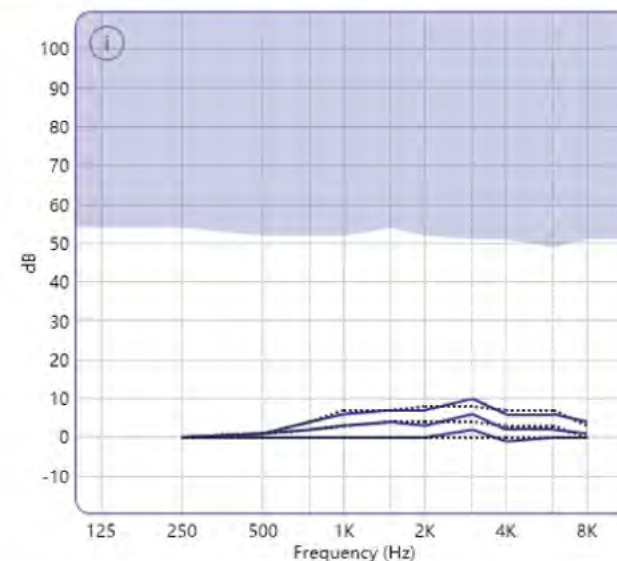
Display Options

Linked

Gain % 100%

Legend

Above FOG



All-Around v Hear in Noise +

Tools

All	250	500	750	1K	1.5K	2K	3K	4K	6K	8K
50	0	1	4	6	7	7	10	6	6	4
65	0	1	2	3	4	3	6	2	2	1
80	0	0	0	0	0	0	2	-1	0	0
CR	1	1	1.2	1.3	1.3	1.4	1.4	1.3	1.3	1.1
MPO	96	99	100	102	104	107	108	109	110	110

Handles: 6 10

↑
1
2
3
↓

↶ ↷

All	250	500	750	1K	1.5K	2K	3K	4K	6K	8K
50	0	1	4	6	7	7	10	6	6	4
65	0	1	2	3	4	3	6	2	2	1
80	0	0	0	0	0	0	2	-1	0	0
CR	1	1	1.2	1.3	1.3	1.4	1.4	1.3	1.3	1.1
MPO	96	99	100	102	104	107	108	109	110	110

Handles: 6 10

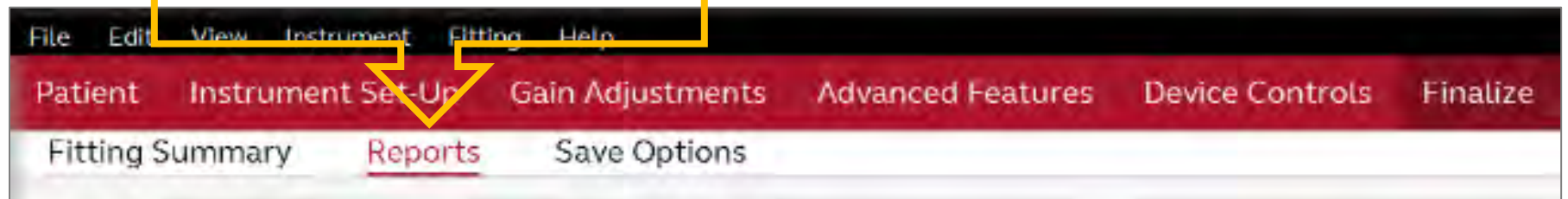
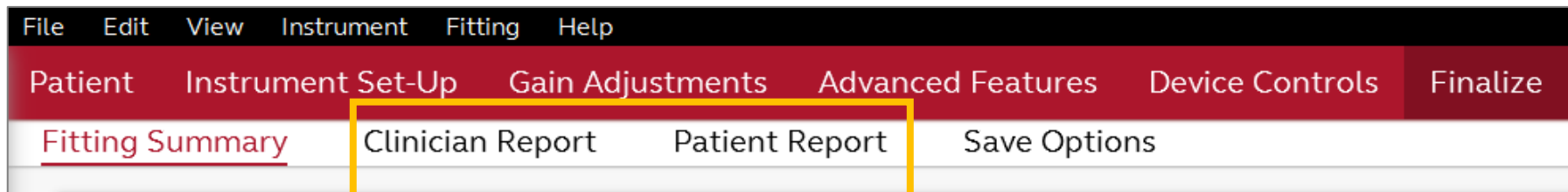
Report building and accessibility

Previous Challenges

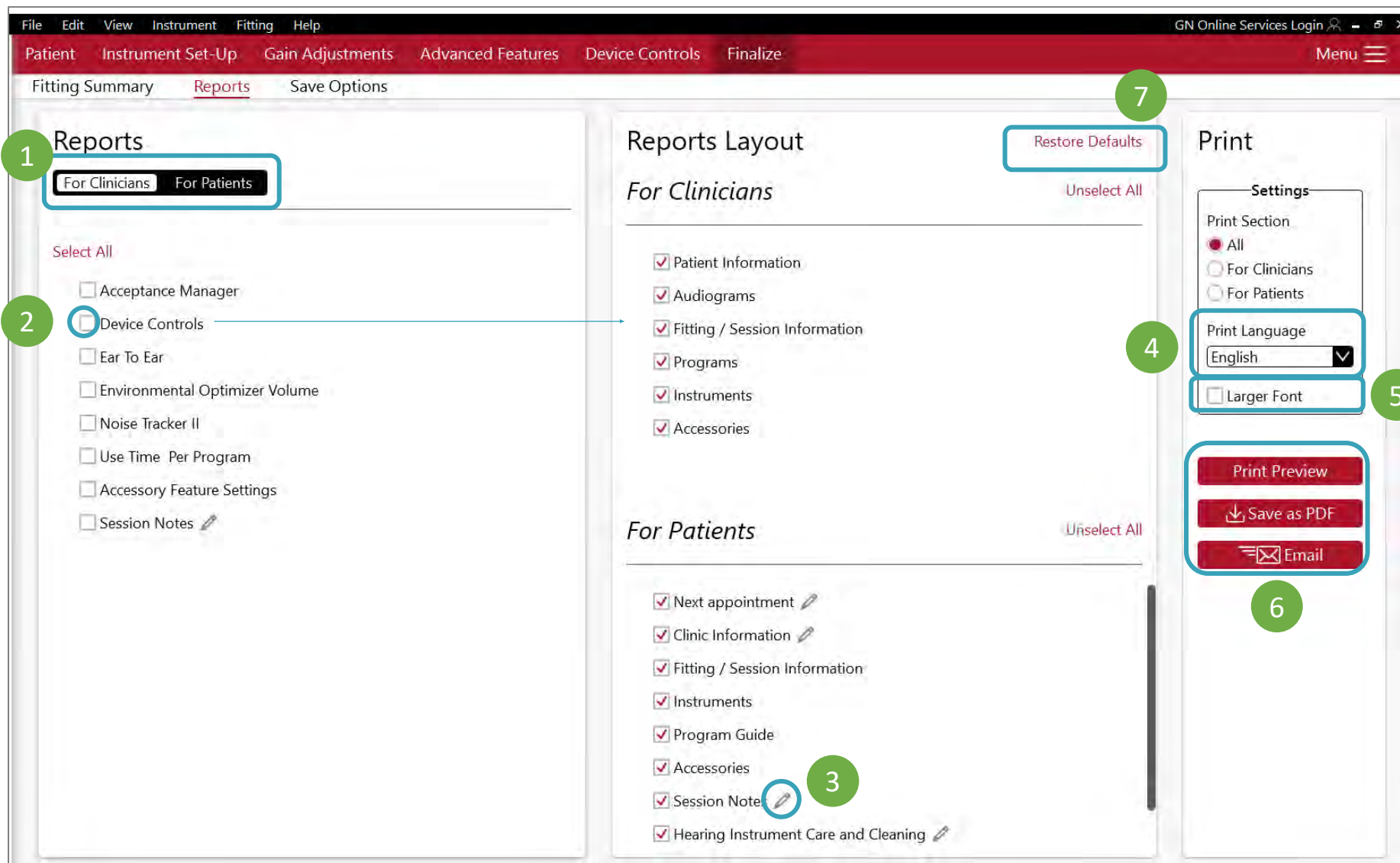
- Separate screens to manage for patient and clinician reports
- Prints in HCP selected language
- Print size is not adjustable

Current Solutions

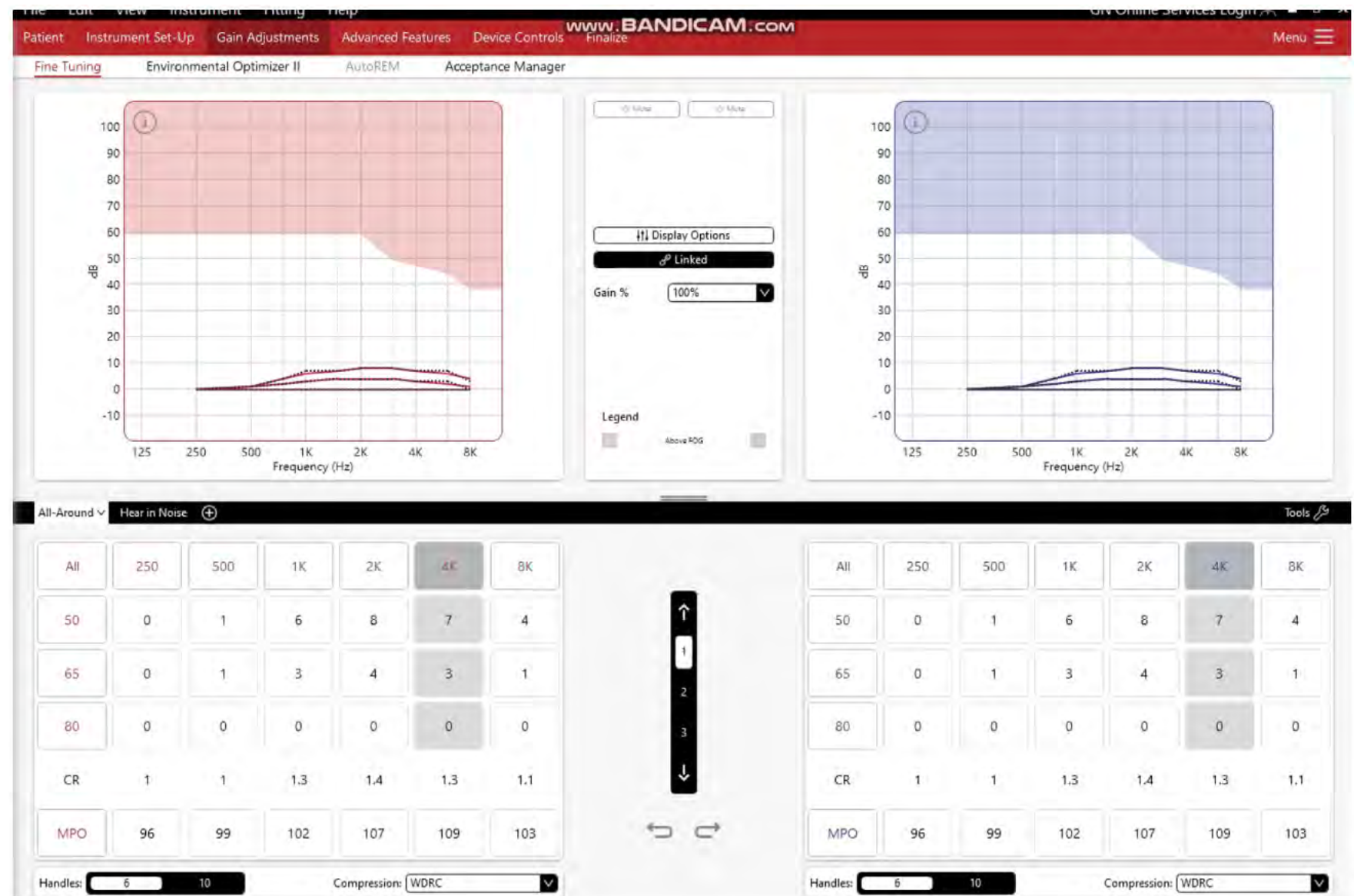
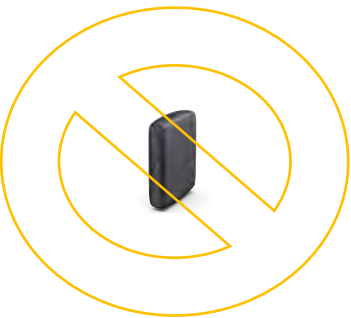
- Both reports can be edited from same screen
- Option to select print language
- Large font option



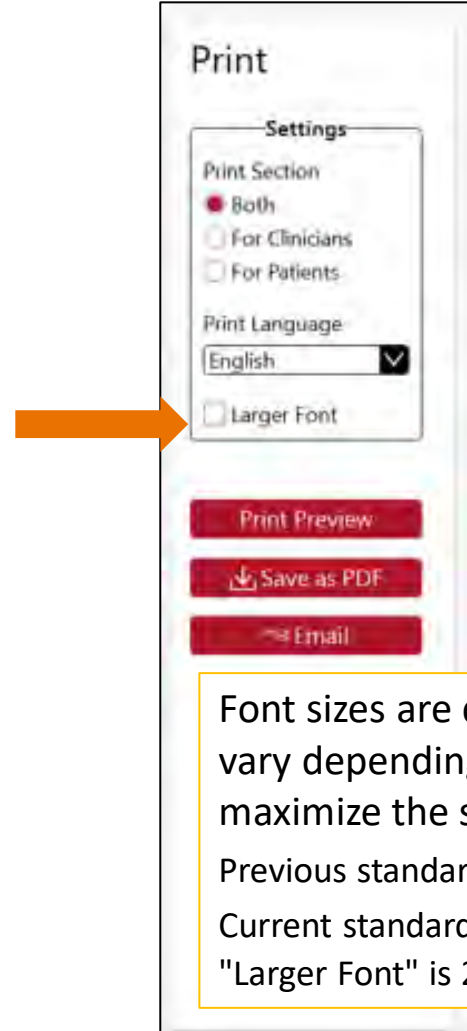
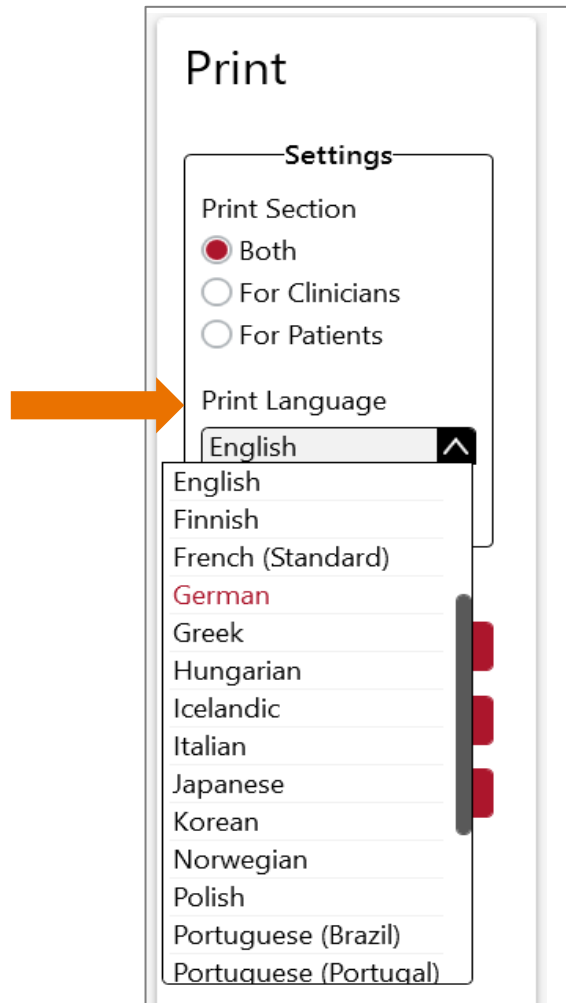
Step by step personalization for you and your patients



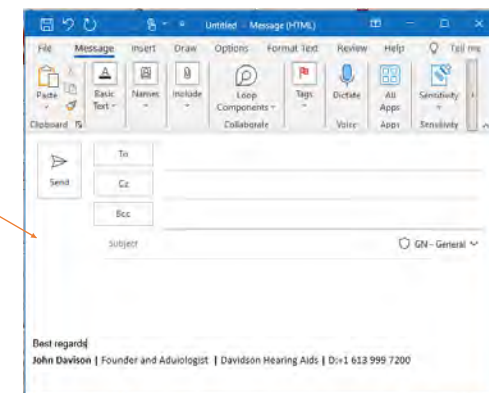
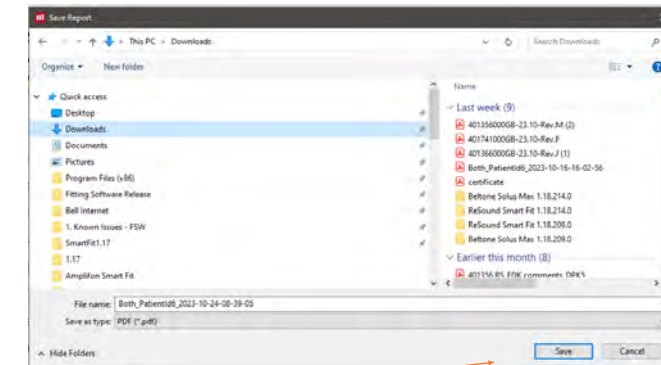
1. Select the report
2. Select topics to add to the report
3. Customize editable topics
4. Select the language
5. Select a larger font size
6. Preview, save as a pdf, and/or email
7. *restore defaults if changes are not applicable to next patient



Report details



Font sizes are dynamic and vary depending on if you maximize the screen
Previous standard was 16 pixel
Current standard is 19 pixel
"Larger Font" is 22 pixel



Hearing Aid Fine-tuning



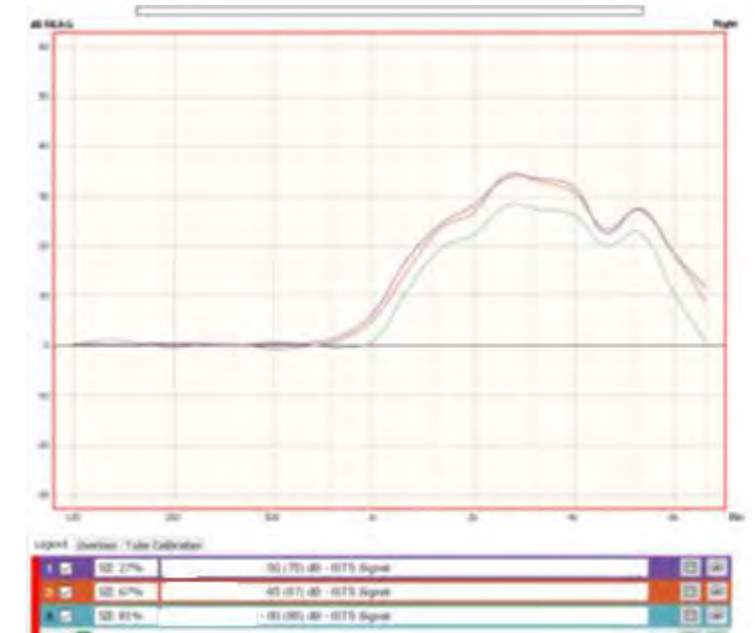
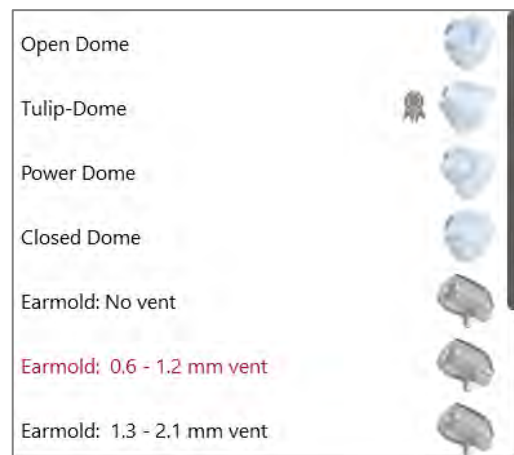
Smart Fit 1.18 tools

- Vent effect awareness
- Fine tuning gain with WARP compressor
- First Time User – Onboarding profile

Earpiece selection and vent effects

Ear coupling has a dramatic effect on the fitting

- Open-type domes do not trap low frequency energy in the ear canal
- The phenomenon will cause REMs to show no low frequency gain and thin or tinny sound quality

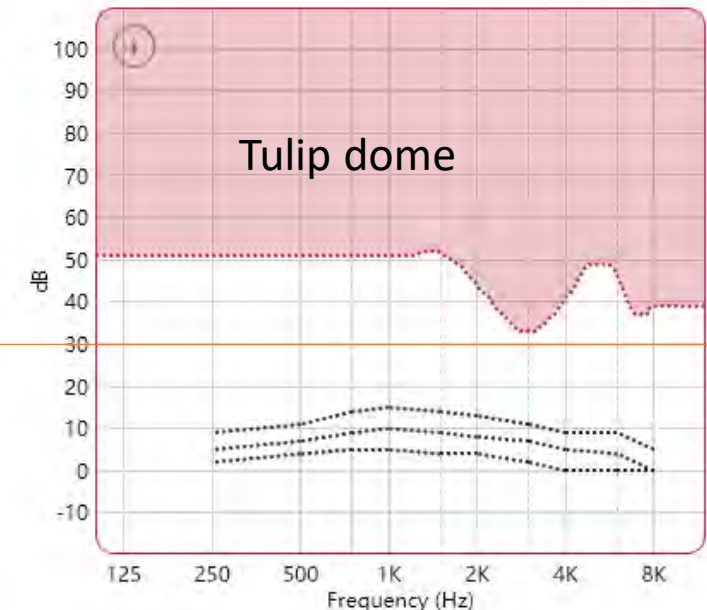
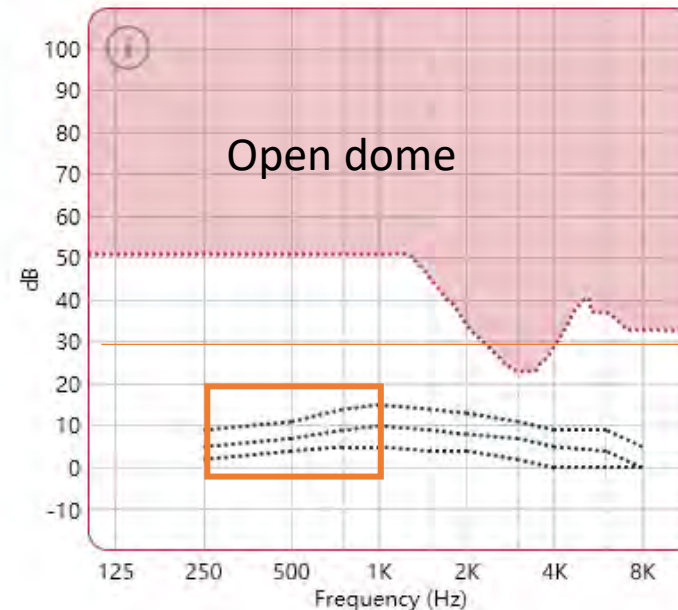


		Vent effect by frequency and dome/mold					
		250	500	750	1000	1500	2000
RIE open	Open Dome	-31	-23	-16	-10	-4	0
	Tulip & Closed Dome	-18	-10	-3	-1	0	0
	3 mm Mold	-25	-12	-4	0	0	0

Fitting software tips and tricks for vent effects

Calibration screen

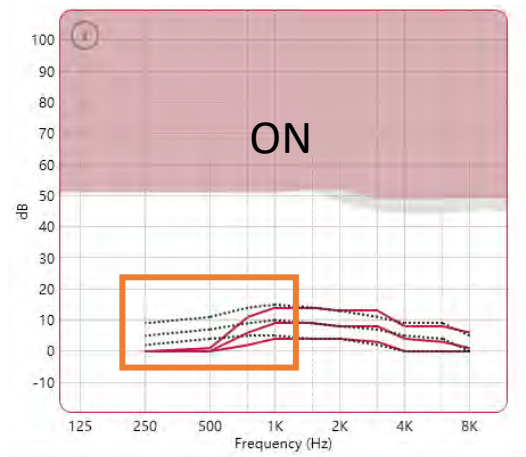
- Target curves
- Calibration curves



Fitting software tips and tricks for vent effects

Vent correction in Display options

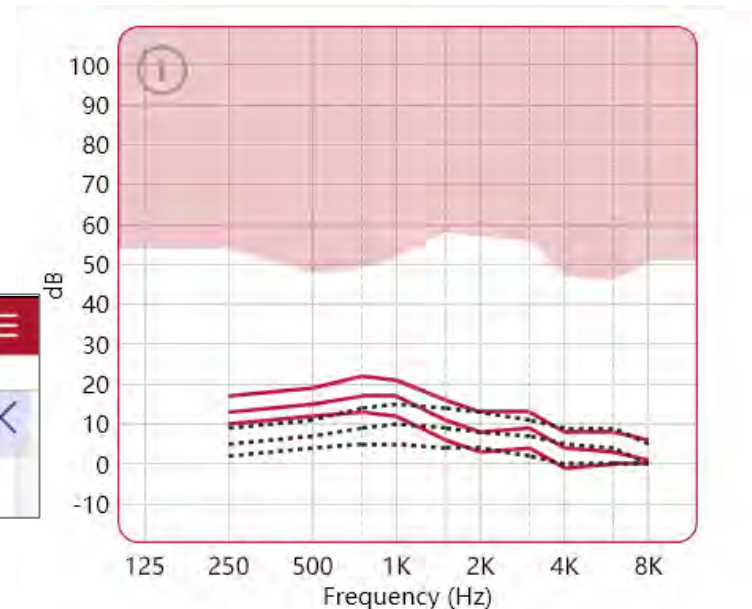
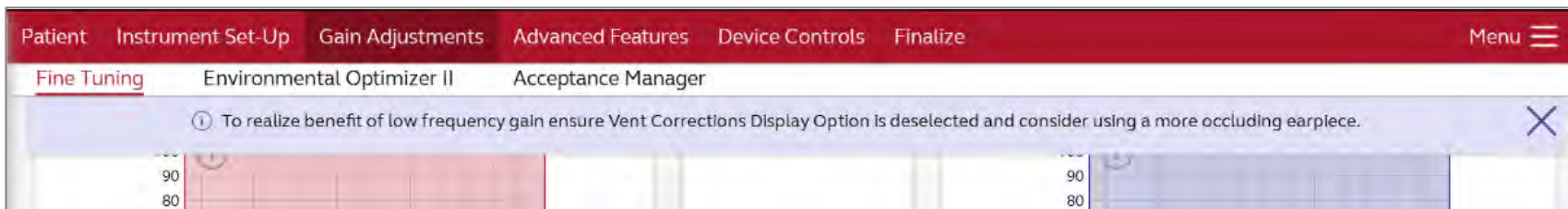
- ON setting offsets gain curves for simulated vent
- OFF setting displays gain from the hearing instrument
- Targets are not affected by the feature, use the gain and targets curves to set expectations



Fitting software tips and tricks for vent effects

Low frequency gain alert

- Changing gain with vent simulation ON combined with intense gain changes can hide gain related issues that affect sound quality
- Best use is to view if earpiece is appropriate for fitting and not to be left ON during REM or gain adjustments
- Should this occur there is a new alert



WARP compression

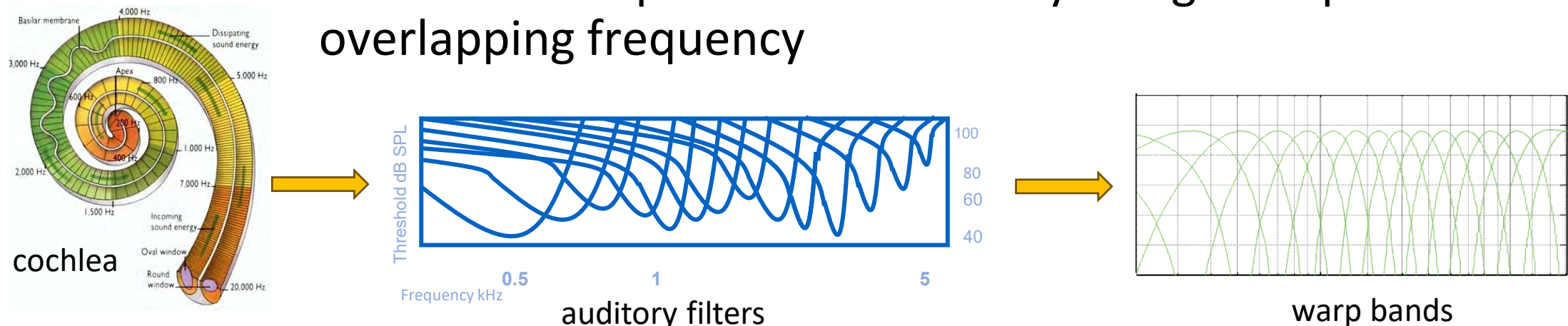
Frequency warping

- Audio processing technique
- Used in conjunction with WDRC
- Warping is used in other audio applications outside the hearing instrument industry
- Designed to mimic non-linear frequency coding within the cochlea

WARP compression

Frequency bands mimics that of the auditory system

- Due to the basilar membrane's logarithmic coding, the ear's ability to resolve sound is best modeled by a system with constant bandwidth in low frequencies and increasing in the highs
- Mathematical warping closely matches frequency components to the auditory Bark scale mimicking the function of the human cochlea to restore its compressive function by using multiple overlapping frequency



Gain handle mapping

Overlapping bands have benefits

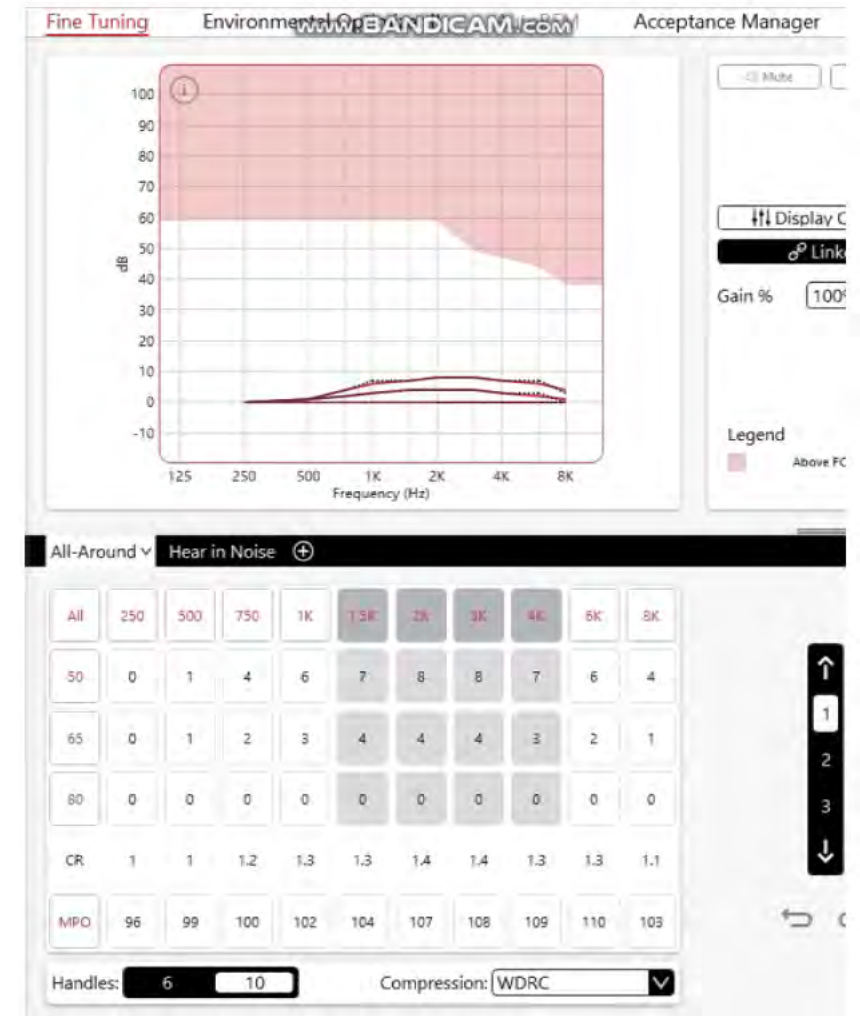
- Reduce introduction of incorrect gains between bands
- Reduce band edge-effect

Example: FSW 1.17

6 Handles	
250	250
500	500, 750
1000	750, 1000, 1500
2000	1500, 2000, 3000
4000	4000
8000	6000, 8000

FSW 1.18

6 Handles	
250	250
500	500, 750
1000	750 , 1000, 1500
2000	1500 , 2000, 3000
4000	4000
8000	6000, 8000



First Time User – Onboarding profile

New profile for patients who prefer a more comfortable sound experience at first fit

- Replaced “Comfort User” profile
- Sets gains at 70% of First Time User targets reducing overall loudness
- Increased noise reduction for comfort
- Acts as a stepping-stone for adaptation

The screenshot displays the 'Prescribed First Fit' configuration window in the ReSound GN software. The window has a red header bar with tabs: Patient, Instrument Set-Up, Gain Adjustments, Advanced Features, Device Controls, and Final. Below this is a sub-header with 'Profile' (highlighted), In-Situ Fitting, Data Logging, and ReSound Assist. The main content area is titled 'Prescribed First Fit' with an information icon. It contains three dropdown menus: 'Target Rule' set to 'Audiogram+', 'Experience Level' set to 'First Time User - Onboarding' (with a sub-note: 'Focus on comfort across all input levels & most comfort in noise'), and 'Gain Level (%)' set to '70%'. At the bottom, there is a checkbox labeled 'Recalculate Target Curves Only' with a sub-note: 'Check to keep existing gain curves. Best to view new target curves while preserving fine tuning.'

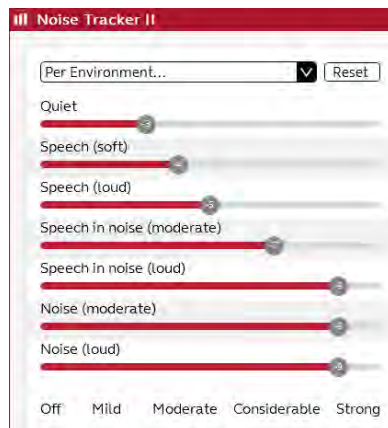
First Time User – Onboarding Profile migration

Changing TO Onboarding profile

- Dictated by preference settings (default 70%), automatic change

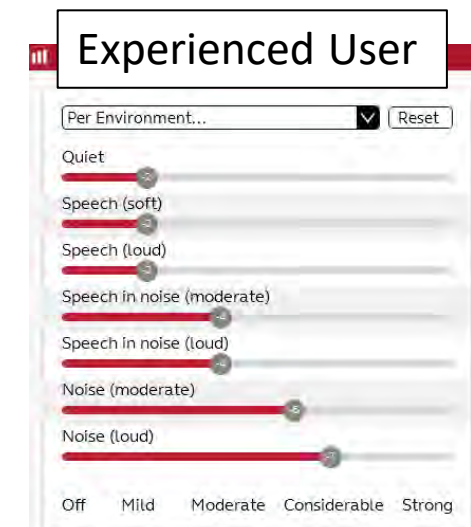
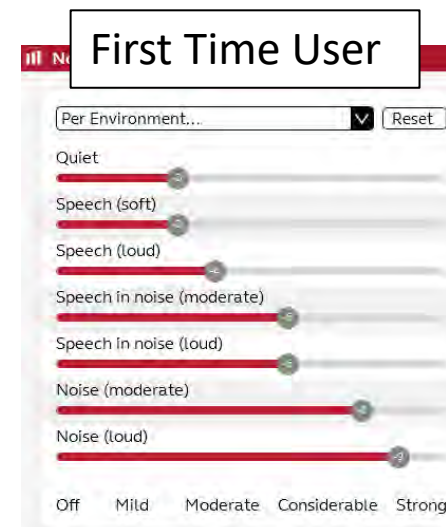
Default Gain Level %*	100	▼
Default Onboarding Gain Level %	70	▼

- Noise reduction setting increase



Changing FROM Onboarding profile

- Manual change required to adjust Gain % settings
- Noise reduction settings decrease



Lightning Quiz & Summary

The ReSound Nexia line extension includes which set of hardware?

A. RIEs and M&RIE receivers

B. Rechargeable BTEs and customs



The Nexia family offers which form of Bluetooth which is not offered in the OMNIA line?

A. Bluetooth LE Audio



B. MFi and Android Streaming

Hearing aids now arrive in packaging which is eco-friendly as it has which quality?

A. It is 100% smaller

B. It is 100% recyclable



New remote services consent flow

A. Allows the remote services to be used without patient consent

B. Allows patient to consent in the app, with consent monitoring for HCP in software



Changes made to the reports increase patient accessibility with which 2 features?

A. Options for increased print size and print language selection

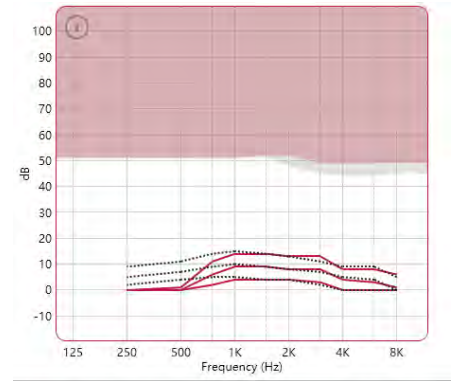


Print Language
English ▼
☐ Larger Font

B. The ability to print the clinician and patient reports in the same document

What are 2 tools in the fitting software can assist with earpiece selection?

A. The simulated vent effect with the Vent Corrections checkbox and the targets gain curves



B. The gray recommendation badge and collapsing from 10 gain handle to 6

The calibration curve, Vent Correction view and the low frequency gain notification are tools to assist in which acoustic phenomenon?

- A. Identifying the vent effects or lack of low frequency gain reaching the eardrum
- B. Converting dB HL to dB SPL

The First Time User – Onboarding profile maybe used to make the adjustment to hearing aids more comfortable. After an adaptation period which steps are recommended?

A. Increase the experience level profile and DO NOT increase the Gain % feature to 100%

B. Increase the experience level profile and increase the Gain % feature to 100%

Summary

	Enhancement	Location	Impact
Hearing Aid Selection	Nexia line extension	Product catalog	Ability to offer Nexia in rechargeable BTE & custom form factors
Hearing Aid Dispensing	Paper box packaging	Shipped start of 2024	100% recyclable packaging
Hearing Aid Fitting	Consent in app	From FSW to app	Patient is in control of consent for remote services therefore reduced workflow for HCP
	AutoREM additions	Gain Adjustments tab	Additional REM equipment options verified (newest Affinity Suite & Maestro)
	Reports	Finalize tab	Quicker report building and great patient accessibility though larger font, language selection & options to send via email
Hearing Aid Fine Tuning	Low frequency gain alert	Appears on Gain Adjustments tab as needed	Additional tool for awareness of vent effect & loss of low frequency energy in the canal
	Elimination of unnecessary overlap in gain handle assignments in collapsed view	Gain Adjustments tab	More control of gain changes in collapsed view
	Moving from First Time User - Onboarding	Patient tab	Used for sensitive first-time wearers to be changed to 100% on increased profile after adaptation period

Thank You!

ekoehler@gnresound.com

