

Course Information

Limitations/Risks

- The applicability and accuracy of the course content may vary by the clinical, geographical, and cultural context; you should evaluate the course accordingly.
- As healthcare is rapidly evolving, new findings may change the validity of the information presented in this course. Providers should always consult the latest research and guidelines from professional associations.
- The interventions discussed in this course may be limited in generalizability, requiring practitioners to consider specific individual and population factors.
- The course may not cover all possible risk factors, diagnostic methods, or treatment options, and complex cases may require additional considerations.
- Healthcare providers should apply cultural competence and sensitivity to ensure effective and respectful care based on their patients' diverse needs.
- Providers should always evaluate the limitations of diagnostic and screening tools, considering their potential for false results as well as any ethical implications.
- It is the responsibility of course participants to critically evaluate the evidence from multiple sources to guide professional practice.

Introducing ReSound Smart Fit 2.3: Intelligent Hearing Evolved

Valerie Kedem

Field Training Audiologist, GN ReSound

Learning Objectives

- Identify the connection flow with the ReSound Smart Fit 2.3 software.
- Understand and identify new options in the ReSound Smart Fit 2.3 software.
- Discuss basic software features in the ReSound Smart Fit 2.3 software.

Key Updates in ReSound Smart Fit 2.3

New AllFit Domes

- AllFit domes are a new addition to the existing SureFit 3 dome line and can be used interchangeably.
- Available in additional sizes (approximately nine more) with a new sleeve dome option (small, medium, large).
- Made from the same medical-grade silicone as SureFit 3 domes, but with a thicker construction.
- Sleeve dome covers the entirety of the receiver; no sports lock or retention line is needed or compatible.
- Terminology note: the AllFit "vented" dome is the equivalent of the SureFit 3 "closed" dome — both have minor venting.

Q3

Quiz Hint

- AllFit domes are selected under Instrument Set-Up > Physical Properties.
- The earpiece type section now separates ear molds from domes, and SureFit 3 domes from AllFit domes.
- Dome size entry does not affect the fitting — it is for informational purposes only.

Updated Physical Properties Screen

- The physical properties page now separates earpiece types: ear molds vs. domes, and SureFit 3 domes vs. AllFit domes.
- The software will begin recommending AllFit domes based on severity and configuration of the hearing loss.
- SureFit 3 domes are referred to as "previous generation" and are expected to be phased out over the next year or more.

New Audiogram Selection Feature

- Providers can now switch between multiple audiograms directly within the software without exiting to the NOAH file.
- This feature is located on the Patient Profile screen.

Q1

Quiz Hint

- The new Audiogram feature is located under Patient > Profile.
- In previous versions (2.2 and earlier), changing the audiogram required exiting the software to the NOAH file.

NAL-NL3 Prescriptive Target Rule

- Smart Fit 2.3 includes the newest version of the NAL prescriptive target: NAL-NL3.
- NAL-NL3 is based on data from approximately 1.8 million patients.
- It is considered a modular target rule — additional sub-targets (e.g., for minimal hearing loss) are expected in future iterations.
- NAL-NL3 is available alongside the proprietary Audiogram+ target rule and NAL-NL2.
- Changing the target rule will not remove or disable any hearing aid features.

Connection Flow and First Fit

Connecting Hearing Aids

- Select the "Connect to ReSound Smart Fit" button to begin.
- Hearing aids can be assigned via Push to Assign (press the push buttons on the hearing aids) or by clicking each aid in the software.
- Push to Assign is particularly useful when multiple devices are detected simultaneously.

Patient Profile Screen

- The first fit workflow opens to the Patient Profile screen first, not Gain Adjustments (as in prior versions).
- The Patient Profile screen allows providers to review and confirm the target rule (Audiogram+, NAL-NL2, or NAL-NL3).
- Experience level options: Onboarding, First Time User, Experience Nonlinear, Experience Linear.
- The software always defaults to First Time User — adjust as appropriate for the patient.
- Onboarding reduces gain to 70% and increases the aggressiveness of Noise Tracker 2 and Impulse Noise Reduction.
- Experience Nonlinear (100% gain) is the preferred long-term target for most patients.
- Experience Linear is suited for patients who prefer a tighter fitting or have a conductive/medical ear condition.
- Gain Level Percentage can be adjusted in 10% increments (60%–110%) from this screen or from Gain Adjustments.

Calibration

- Run calibration for every first fit — this activates the Digital Feedback System Ultra III (DFS Ultra III).
- The calibration buzz is brief but loud; if it continues for an extended period, rerun the calibration.
- The calibration curve (red/blue line) appearing within the target curves indicates active feedback protection — this is expected and does not indicate gain reduction.
- A calibration curve that is severely depressed may indicate an occlusion issue or an incorrect receiver.

Q4

Quiz Hint

- A typical first fit sequence: Connect hearing aids > Calibration > Demonstrate low battery warning > Save.
- Calibration must be run on every first fit to activate the DFS Ultra III feedback system.

Q5

Quiz Hint

- Running Calibration activates the Digital Feedback System Ultra III (DFS Ultra III).
- DFS Ultra III is the feedback management system in ReSound Smart Fit 2.3.

Saving the Fitting

- After completing the first fit, demonstrate the low battery warning (sounds similar to Beethoven's Fifth Symphony) and then select Save.
- The ReSound Assist remote fine tuning prompt appears at save — this can be acknowledged and closed without action.

Patient Profile Screen Features

Battery Indicators

- Green dots in the sidebar represent the battery life of rechargeable hearing aids in 20% increments.
- The battery icon is a visual label only; it does not indicate battery health or actual charge level.
- Green dots are consistent across the Smart Fit software, the Smart 3D app, and premium chargers.

Audiogram Selection

- Providers can select from multiple available audiograms within the Patient Profile without exiting to NOAH.

In Situ Fitting

- Available for BTE and RIC hearing aids under the Patient Profile screen.
- Recommended as a supplemental tool — useful when a fitting is not resolving after real ear verification, during remote fittings, or when a patient reports a change in hearing.

Data Logging

- Provides day-to-day information on patient hearing aid use, including volume changes per program and per environment.
- Binaural Processing data shows how often the microphones are operating in omnidirectional, directional, or asymmetric patterns.
- Useful clinically to reconcile differences between provider observations and patient-reported experience.

ReSound Assist

- ReSound Assist: Patient-driven remote fine tuning. The patient submits a request via the Smart 3D app; the provider responds through the software.
- ReSound Assist Live: Real-time, live connection similar to a video call — allows the provider to make and upload adjustments while connected with the patient.

Instrument Set-Up

Physical Properties

- Earpiece type is now categorized as: ear molds vs. domes, and SureFit 3 (previous generation) vs. AllFit domes.
- RIC receiver length is auto-detected by the software — no manual entry required.
- Dome size can be entered for informational purposes; it does not affect the fitting.

Calibration Screen

- Also accessible directly within Instrument Set-Up, outside of the first-fit workflow.

Details

- Displays hearing aid-specific information: receiver link, receiver power, serial number, product name, audiogram features, and ANSI/Hitbox measurements.

Gain Adjustments

The Gain Adjustments screen is the primary fitting screen and should be used for the majority of fitting-related work.

Default Programs

- Two programs are set by default: Program 1 (All Around) and Program 2 (Hearing in Noise).
- Up to four programs can be added using the plus sign — options include Music and Outdoor.
- Music should be added manually for patients involved in music environments, as the environmental classifier does not categorize music as a distinct environment.
- Gain and advanced feature changes are program-specific and do not automatically carry over to other programs.

Q2**Quiz Hint**

- The default number of programs in ReSound Smart Fit 2.3 is two: All Around and Hearing in Noise.
- Up to four programs total can be added.

Fine Tuning

- Gain adjustments can be made in 1, 2, or 3 dB steps across individual frequency bands or across all frequencies simultaneously using the All button.
- Gain values represent actual decibels applied to the hearing aids.
- MPO can be increased or decreased independently of gain.
- Use Instrument MPO (vs. Prescribed MPO) for patients with larger losses who report pumping or sudden-onset discomfort with loud sounds — visible only in Output View under Display Options.
- Recommended target for compression ratios: 1.9 or below when possible.

Display Options

- Gain View is the default display; Output View is available for visualizing MPO changes.
- Vent Corrections are left off by default to avoid over-amplification of low frequencies that may not be visible in the gain view.

Program Options

- Reorder Programs: Quickly reorder or delete programs in the fitting.
- Recalculate: Two options — Reset Gain and MPO Only (returns to initial fit targets) or Reset All Fine Tuning (full reset, equivalent to an out-of-box state).
- Orderly: Applies gain changes from one program to selected other programs simultaneously.
- Manage Program Names: Changes program labels as displayed to the patient in the Smart 3D app or on a remote control. Software-side names remain unchanged to preserve clinical clarity.
- Copy/Paste: Duplicates an existing program as a starting point for a new one.
- Link/Unlink: Allows independent gain adjustments for each ear when binaural balance adjustment is needed.

Environmental Optimizer

- Functions as an automatic volume control that adjusts overall loudness based on the detected listening environment.
- Adjusts volume in environments classified as: speech only, speech and noise, or noise only.
- Useful when a patient reports overall satisfaction but difficulty hearing soft talkers (e.g., children) without making all sounds louder.
- Available in Vivia 4, 5, 7, and 9; Enzo iA 4, 5, 7, and 9; and Nexia.

Auto REM

- Visible when compatible real ear equipment is attached; becomes an active button only during a live fit.
- Used to match prescriptive targets with real ear measurement equipment.

Acceptance Manager

- Gradually increases gain toward target over a provider-defined period (default: 4 weeks; maximum: 6 months).
- Useful for patients who cannot tolerate full target gain at initial fitting or who have extended intervals between appointments.
- Progress requires a minimum of 8 hours of daily hearing aid use; the volume will not advance without adequate wearing time.

Advanced Features

Advanced features are organized by purpose: Speech (sound quality and speech intelligibility) and Comfort (comfort-related processing).

Feedback Control (DFS Ultra III)

- Activated by running Calibration; defaults to Mild sensitivity.
- Sensitivity levels: Mild, Moderate, Strong, and Music (Music is the least sensitive setting).
- Increase sensitivity (Moderate or Strong) if breakthrough feedback persists after calibration.

Tinnitus Sound Generator

- Located within the Advanced Features panel.

Feature Demonstrations

- Available under Help > Feature Demonstrations for the connected hearing aid model.
- Each feature includes a written description and a silent video demonstration.
- Videos do not contain audio — this is by design.

Device Controls

Manual Controls

- Short push: Volume control (right = raise, left = lower).
- Long push: Program change or streamer activation.

Standard Beeps

- Program indicators: 1 beep = Program 1, 2 beeps = Program 2, and so on, cycling back to 1.
- Low battery warning sounds similar to Beethoven's Fifth Symphony.

Delayed Activation

- Equivalent to the legacy Smart Start feature; mutes hearing aids for 10 seconds (adjustable to 5 seconds or off) upon power-up.
- Provides the patient with an audible startup confirmation without immediate full amplification.

Accessories

- Current generation accessories: Multi Mic Plus and TV Streamer Plus.
- Previous generation accessories: Multi Mic, Micro Mic, TV Streamer, Phone Clip Plus.
- Bass boost can be adjusted independently for each accessory type after pairing.
- Accessories are paired from the Device Controls tab — note this location has changed from earlier software versions.

Finalize

Reports

- Clinician reports and patient-facing reports are both available in the Finalize section.
- Report content can be customized — select or deselect sections as needed.
- Language can be changed to accommodate patients who speak languages other than English.
- Font size can be increased for improved readability.
- Reports can be printed directly from the software or previewed before printing.

Key Takeaways

- Smart Fit 2.3 introduces AllFit domes, an updated Physical Properties screen, in-software audiogram selection, and the NAL-NL3 prescriptive target rule.
- A standard first fit sequence: Connect hearing aids > Calibration > Demonstrate low battery warning > Save.
- Calibration activates the DFS Ultra III feedback management system and must be run on every first fit.
- The default fitting opens with two programs: All Around (Program 1) and Hearing in Noise (Program 2). Up to four programs can be added.
- The Gain Adjustments screen is the primary fitting area; all changes are program-specific.
- Environmental Optimizer adjusts overall volume by environment — a practical tool for patients who report good overall sound quality but difficulty with soft talkers.
- The Acceptance Manager gradually increases gain over time (up to 6 months) and requires a minimum of 8 hours of daily use to advance.

Notes

Contact Information

Valerie Kedem
Field Training
Audiologist
GN ReSound
Customer Care: 1-888-
RESOUND

Notes

