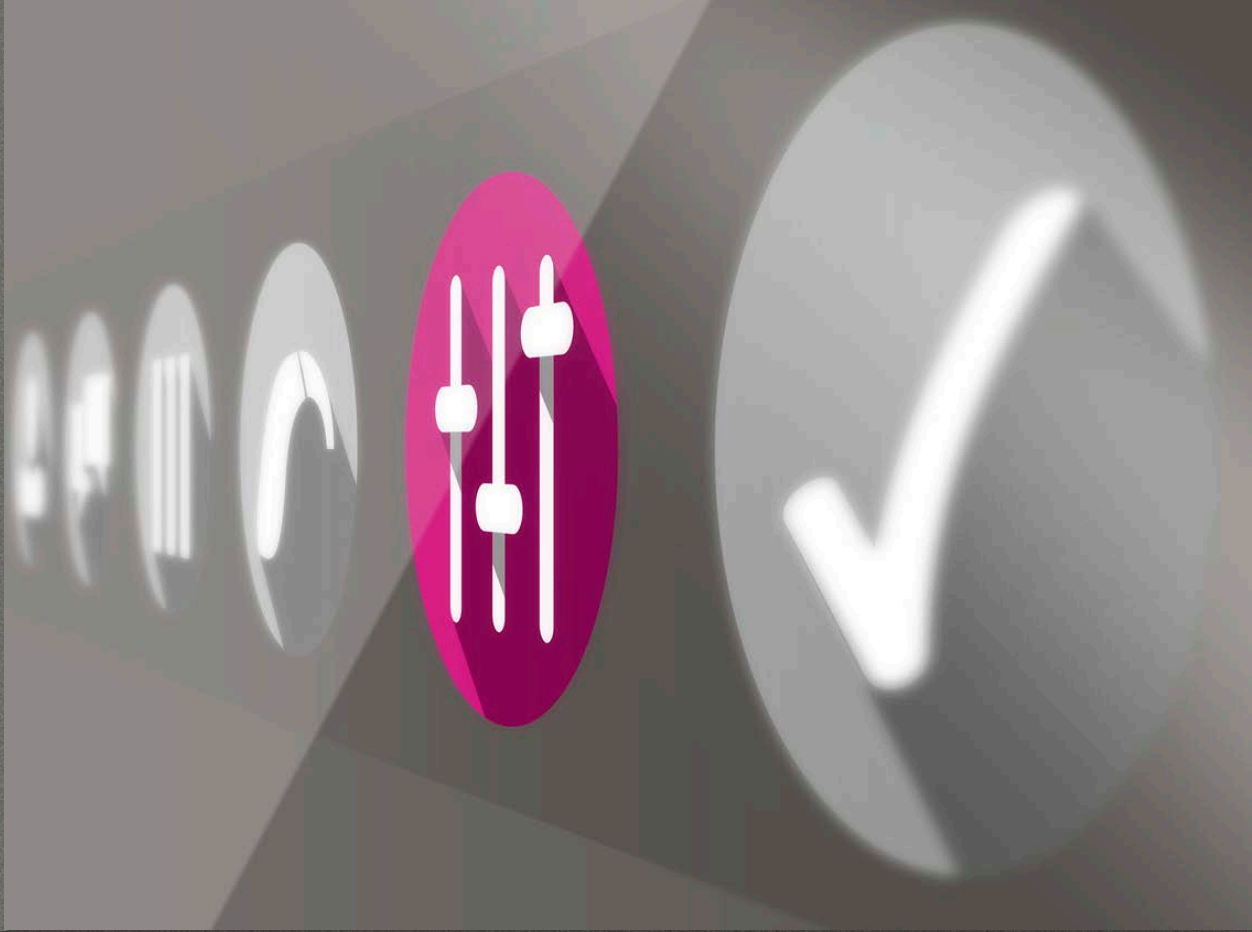
News in Genie 2 | 2019.2



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What’s new in Genie 2 I 2019.2

New instruments supported

- **Oticon Xceed BTE SP & BTE UP**
- **Oticon Xceed Play BTE SP & BTE UP**
- **Oticon CROS**
- **Oticon EduMic**

Extensions to existing fitting features

- DSE and DSE Linear
- Transfer settings update
- **REM AutoFit update**

New fitting features introduced

- **Bimodal fitting Panel**

Updates to user interface

- Paediatric fitting mode

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What is new when firmware updating

Firmware 8.0 – Oticon Opn S and Opn Play

- Support for Oticon CROS
- Enhanced reliability of connection to Android devices
- Support to bimodal fittings and bimodal fitting panel in Genie 2, 2019.2
- Support to multiple TV Adapters and EduMic connections

What is new when firmware updating

Firmware 8.0 – Oticon Opn S and Opn Play

- Security improvements – data logging transmission
- Enhanced data logging of acoustic inputs and hearing aid performance for use with HearingFitness™ App
- 2.4 GHz Bluetooth performance, stability and speed improvements
- Safety feature in miniRITE R protecting against unintended usage in charger, damaging the Li-Ion battery

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What is new when firmware updating

Firmware 6.1 – Oticon Opn – and firmware 1.1 – Oticon Siya

- Enhanced reliability of connection to Android devices

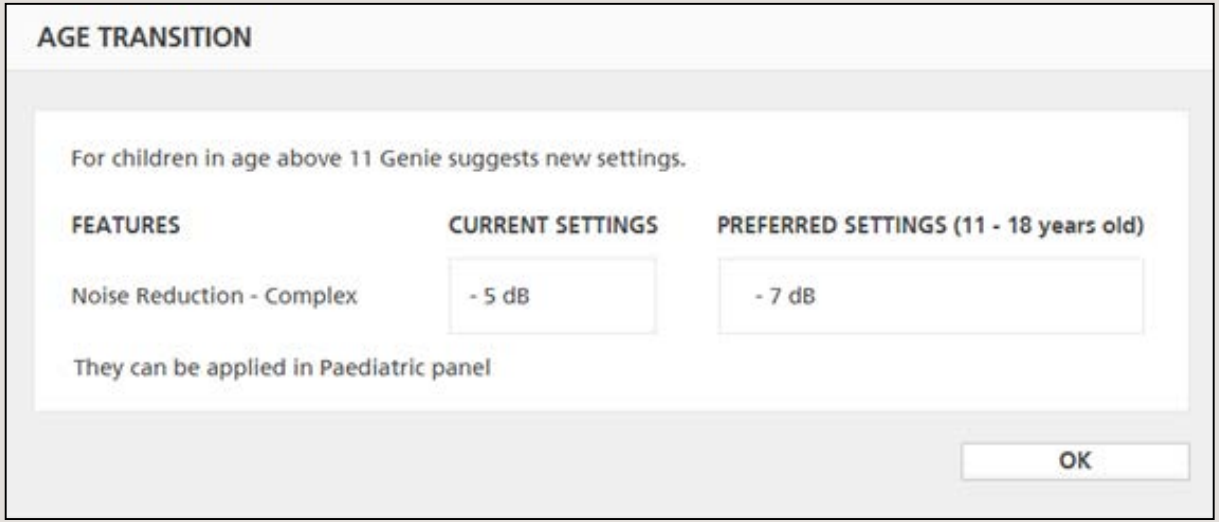
Please note: to fit two hearing aids as a pair the ***firmware version number must be exactly the same****.*

Client

Paediatric fitting mode

New pop up box

- Notification of new recommended settings when children grow older
- Any changes must be made by hearing care professional, not by Genie default



Selection

Programming options

FittingLINK 3, NOAHlink, NOAHlink Wireless, Express Link, HiPro

Wireless

Noahlink Wireless

Cable

HI-PRO2

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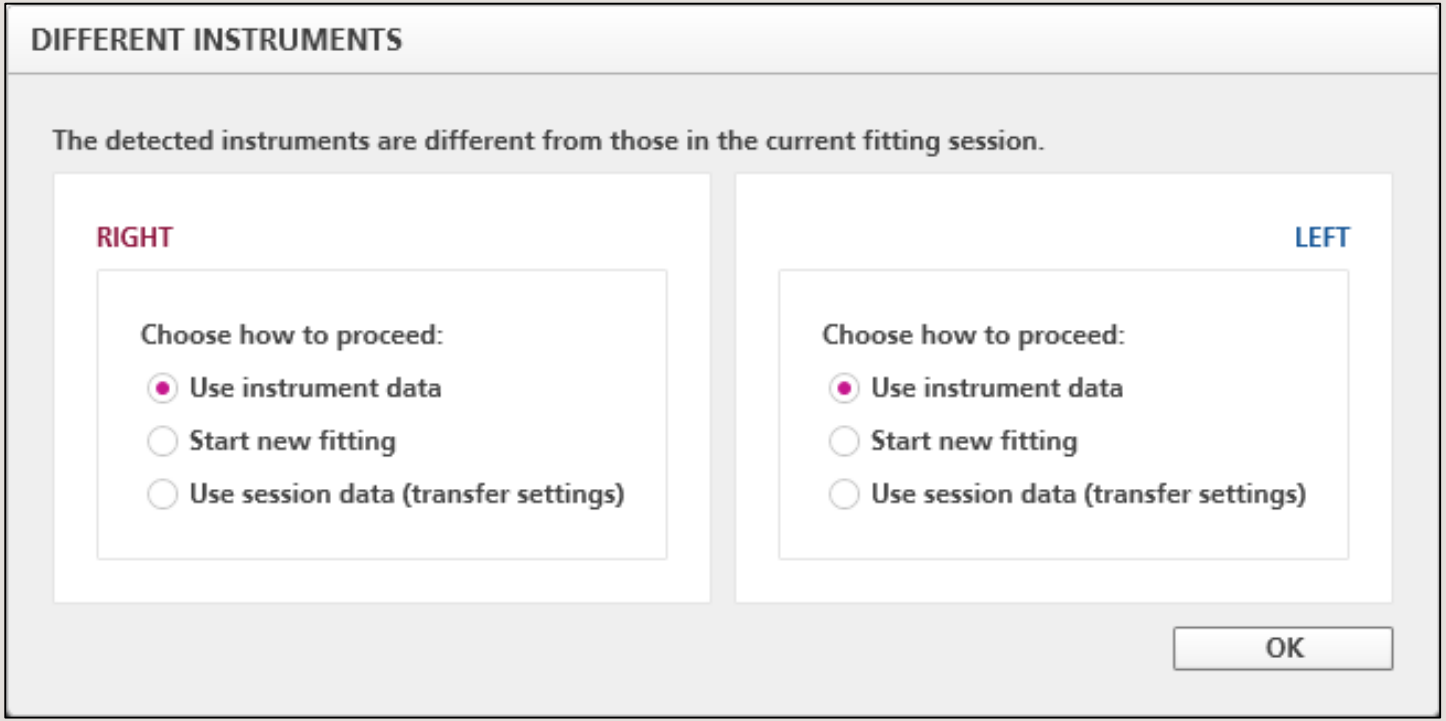
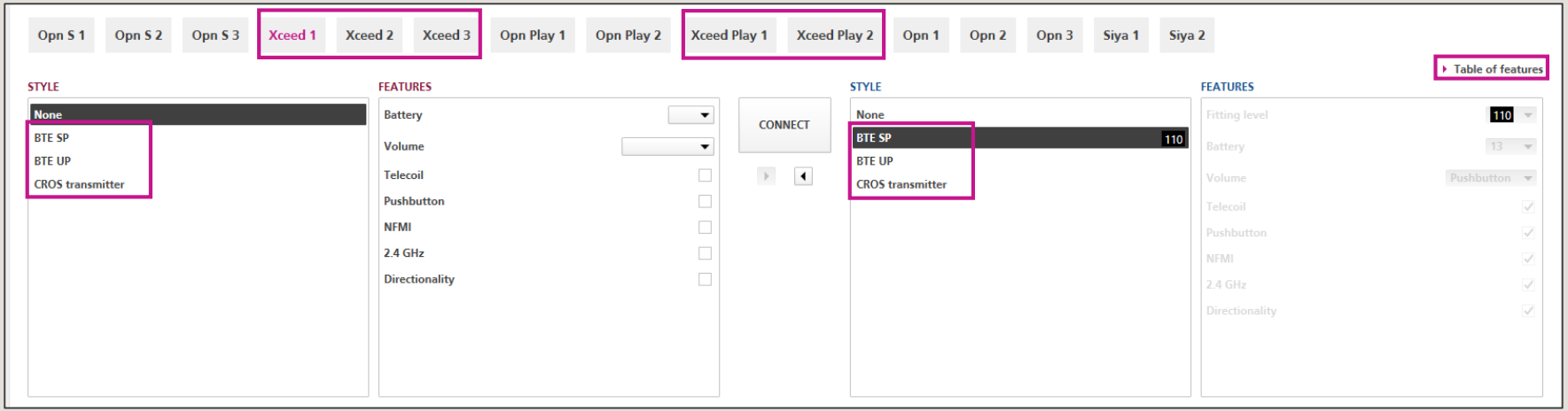
Detection dialogue

Updated text



Selection screen

New families – Oticon Xceed and Oticon Xceed Play



GENIE LIVE

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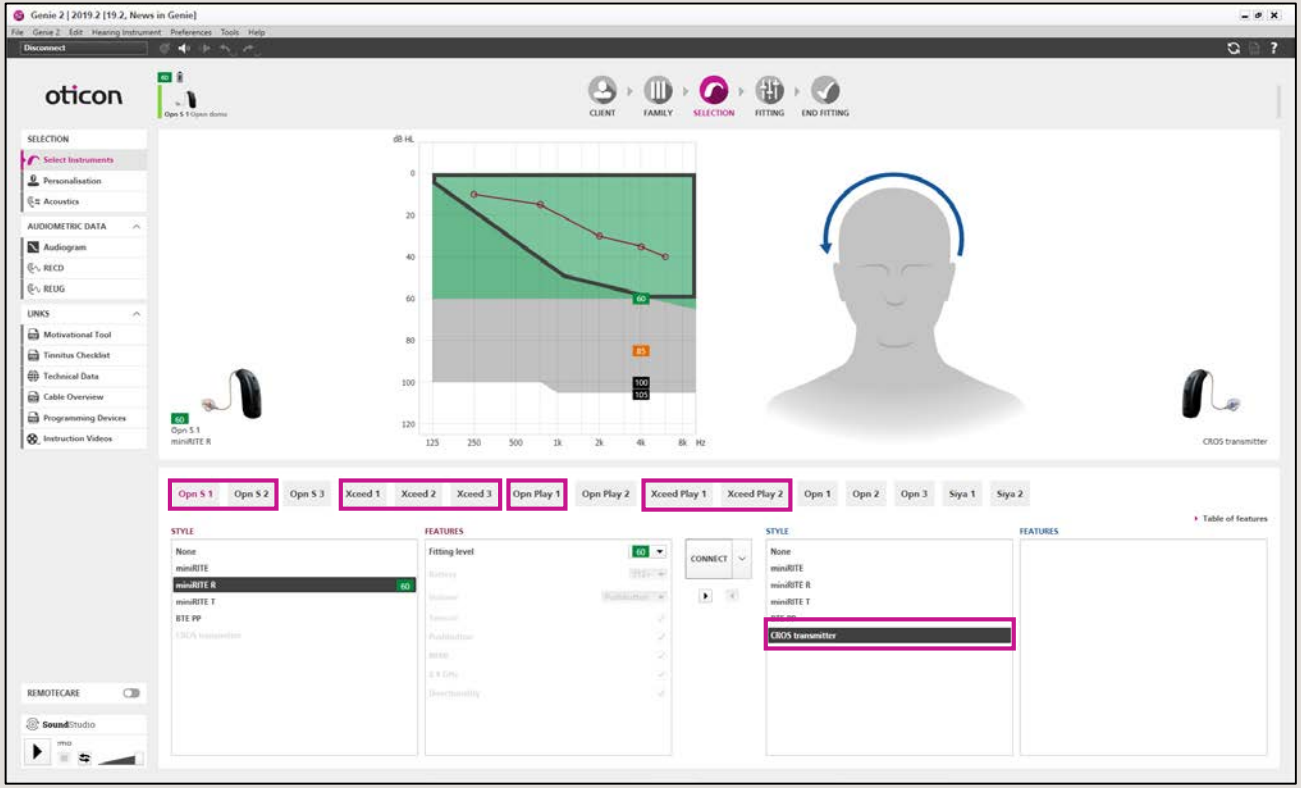
CROS / BiCROS

Newest firmware needed in HI – firmware 8.0



Compatible with:

Opn S1 & S2

Opn Play 1

Xceed 1, 2, 3

Xceed Play 1, 2

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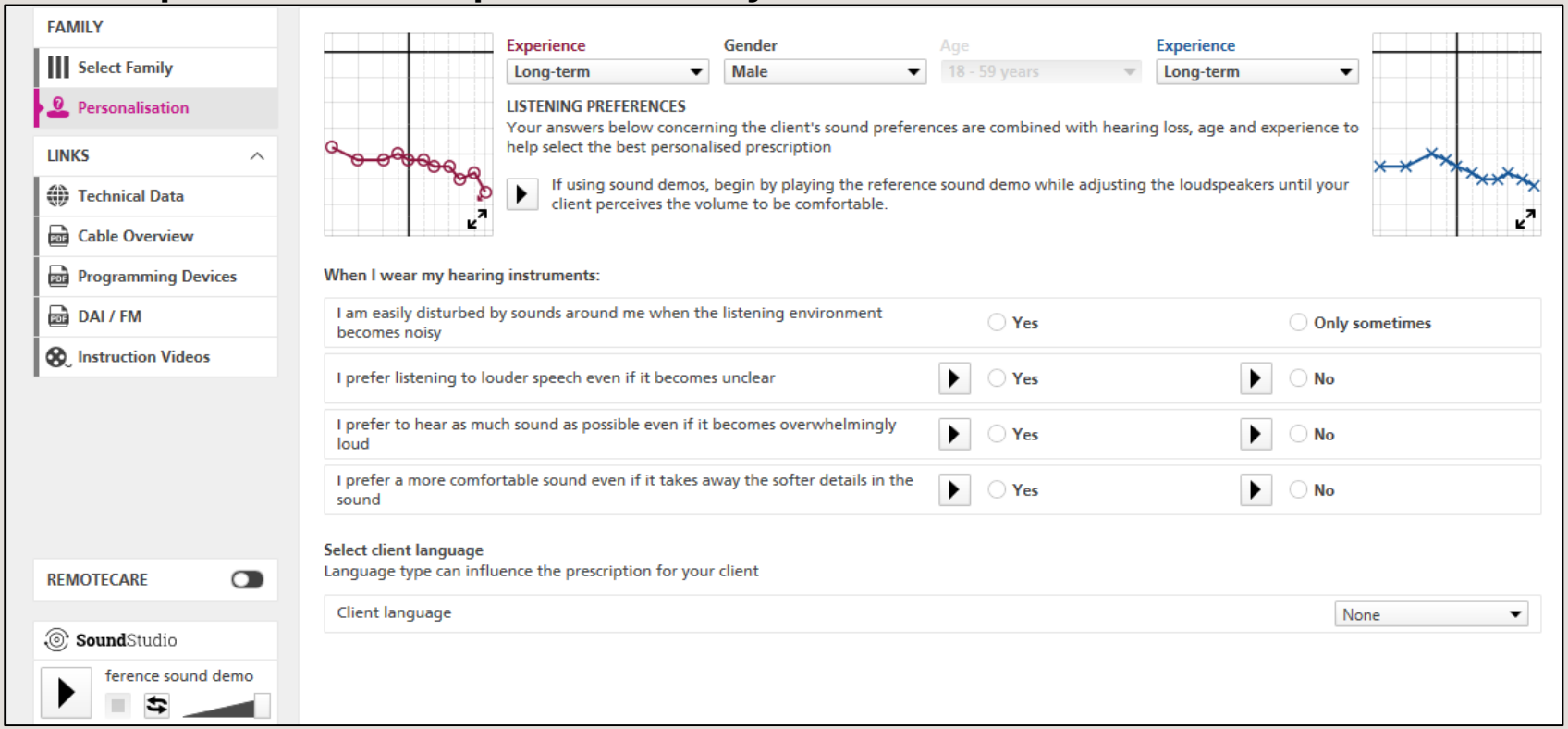
Personalization for power users

Use the personalization questions – maybe without sound files



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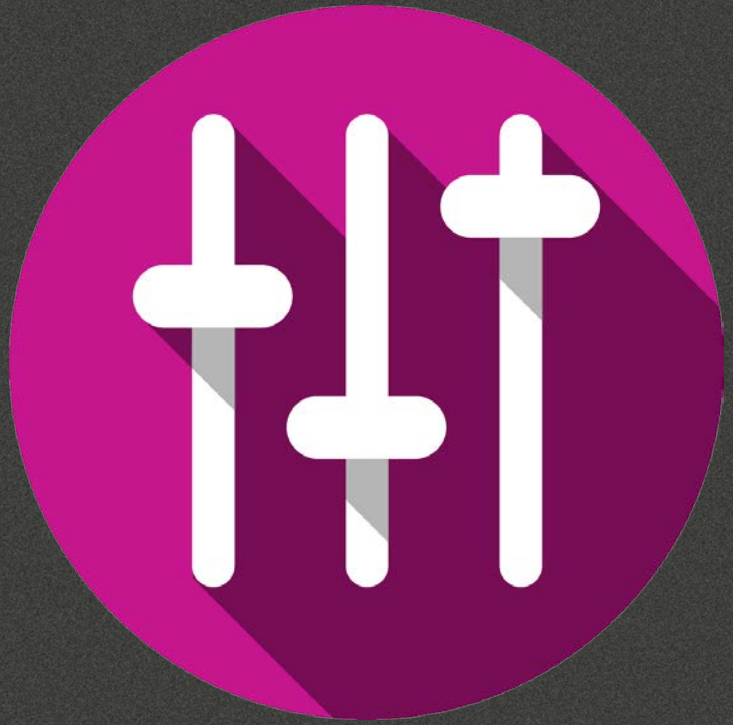
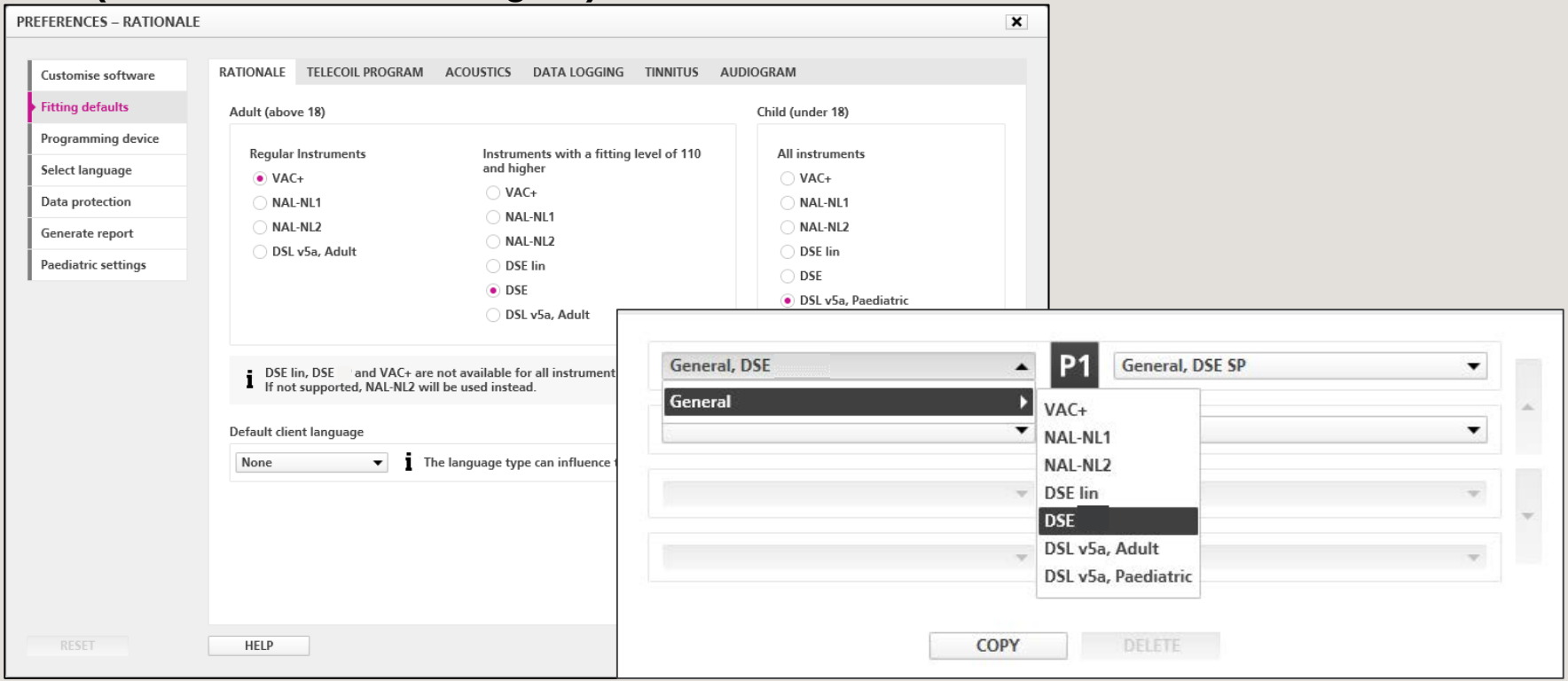


Fitting

Power fitting rationales

DSE (default for HI 110 or higher) and DSE linear



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Available in Oticon Xceed

- **DSE,** DSE lin, VAC+, NAL-NL 1, NAL-NL 2, DSL v5a (Child and Adult)

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Xceed 1 **Xceed 2**

Available in Oticon Xceed Play

- DSL v5a, DSE, DSE lin, VAC+, NAL-NL 1, NAL-NL 2

OTICON | **Xceed Play**

Xceed Play 1

Xceed Play 2

Fitting bands for Oticon Xceed / Xceed Play

Xceed 1 / Xceed Play 1
14 fitting bands

125	250	500	625	750	1k	1.25	1.5	1.75	2k	3k	4k	5k	6k	All
21	27	30	27	27	31	31	32	36	37	38	48	47	50	Loud
31	37	40	38	37	41	42	43	47	47	48	48	47	50	Moderate
40	46	49	47	46	50	51	52	56	57	53	48	47	50	Soft

Xceed 2 / Xceed Play 2
12 fitting bands

125	250	500	750	1k	1.25	1.5	1.75	2k	3k	4k	6k	All
27	33	35	33	37	37	38	42	43	44	48	50	Loud
37	43	45	43	47	48	49	53	53	53	48	50	Moderate
46	52	54	52	56	57	58	62	63	53	48	50	Soft

Xceed 3
8 fitting bands

250	500	1k	1.5	2k	3k	4k	6k	All
30	35	36	40	43	44	48	50	Loud
40	45	46	51	53	53	48	50	Moderate
49	54	55	60	63	53	48	50	Soft

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Automatic Adaptation Manager

Now also for power instruments

GAIN CONTROLS | SOUND CONTROLS

1 2 3

	125	250	500	625	750	1k	1.25	1.5	1.75	2k	3k	4k	5k	6k	All
Loud	26	32	34	32	32	35	36	37	40	42	43	48	47	50	
Moderate	32	38	40	38	38	42	43	44	48	48	49	48	47	50	
Soft	38	44	46	44	44	48	49	50	54	54	53	48	47	50	

1 2 3

	All	125	250	500	625	750	1k	1.25	1.5	1.75	2k	3k	4k	5k	6k
Loud		28	34	30	32	36	41	44	47	50	52	51	48	47	50
Moderate		34	40	36	39	43	48	51	54	58	58	53	48	47	50
Soft		40	46	42	45	49	54	57	60	64	64	53	48	47	50

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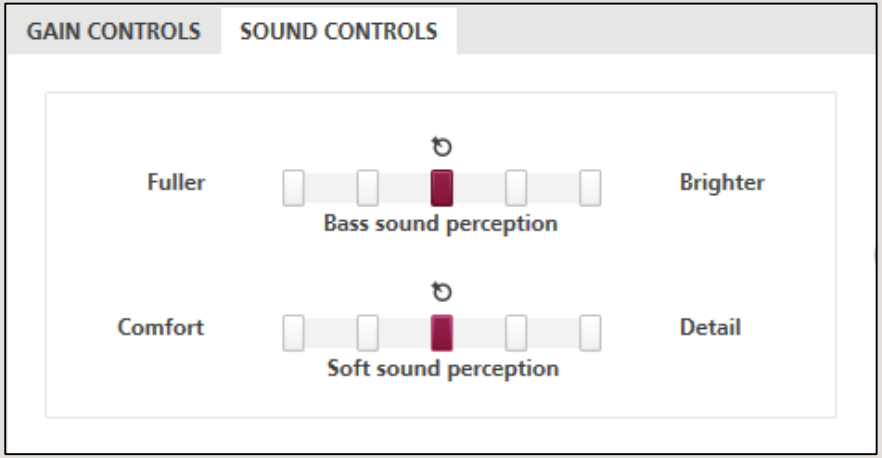
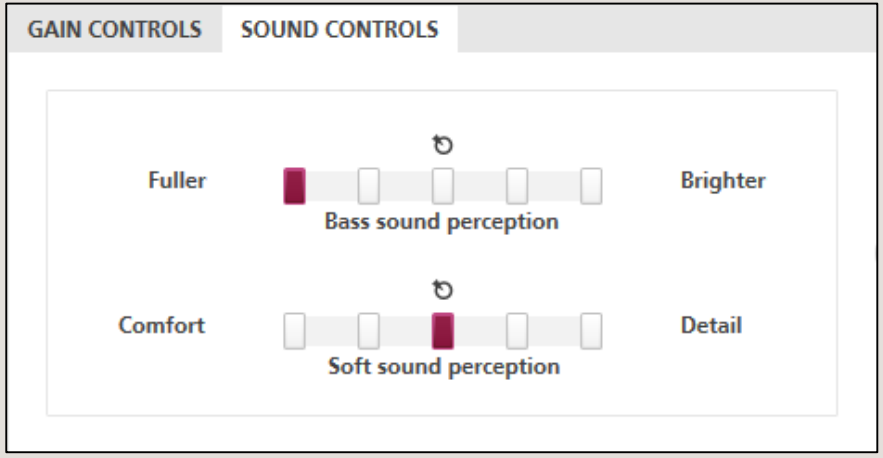
Bass Sound Perception

Replaces Brightness Perception - Change low frequency gain up to 1KHz
Sound Controls not avail for DSL or NAL



125	250	500	625	750	1k	1.25	1.5	1.75	2k	3k	4k	5k	6k	All
26	32	34	32	32	35	36	37	40	42	43	48	47	50	Loud
32	38	40	38	38	42	43	44	48	48	49	48	47	50	Moderate
38	44	46	44	44	48	49	50	54	54	53	48	47	50	Soft



125	250	500	625	750	1k	1.25	1.5	1.75	2k	3k	4k	5k	6k	All
30	36	38	35	34	37	36	37	40	42	43	48	47	50	Loud
36	42	44	41	40	44	43	44	48	48	49	48	47	50	Moderate
42	48	50	47	46	50	49	50	54	54	53	48	47	50	Soft

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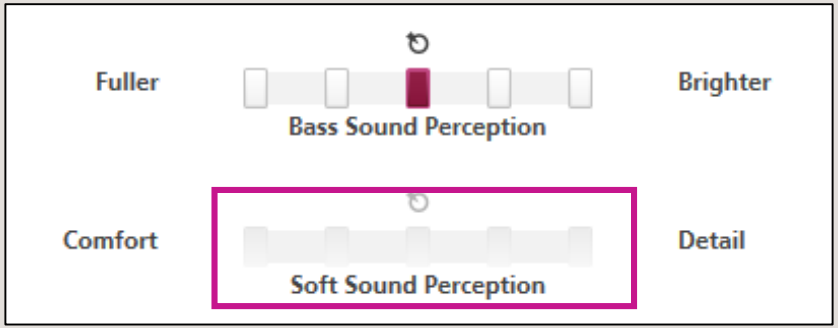
Soft Sound Perception

Sound Controls

Soft Sound Perception
is disabled when
DSE linear is selected



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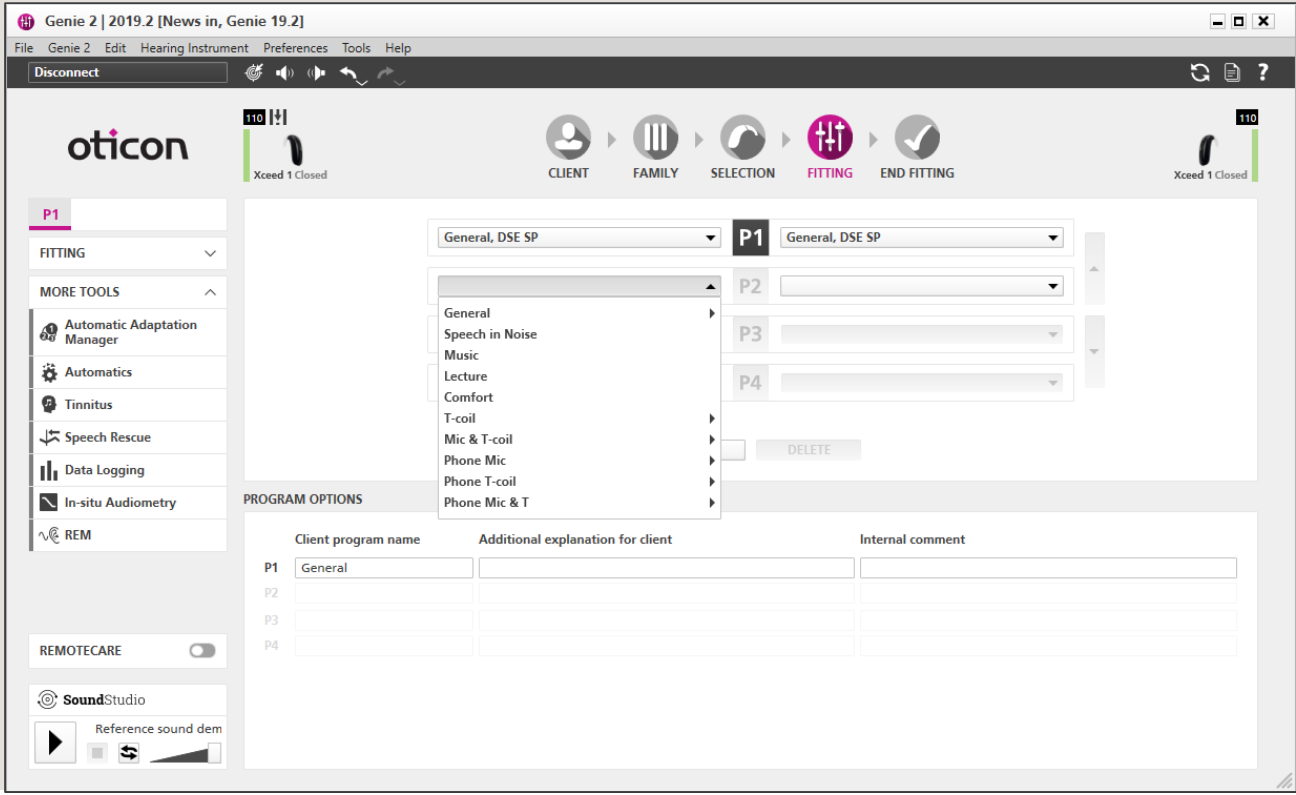
Phone programs

Recap

- Phone programs for phones not streaming
  - Phone Mic
  - Phone T-coil
  - Phone Mic & T

- No AutoPhone



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OpenSound Optimizer in Genie 2

OpenSound Optimizer: Benefits during fitting

- **Optimal gain**
  - OSO enables 6 dB more gain if desired
- **Possibility of better target match**
  - With same vent as before, better target match can be achieved
  - Fitting to same target, OSO allows for more gain to use as desired
- **More headroom**
  - Allows for better handling of dynamic situations (hand/phone to ear, hat on, etc)
- **More open fitting where appropriate**
  - OSO enables HCP to try a more open fitting if client has issues with occlusion

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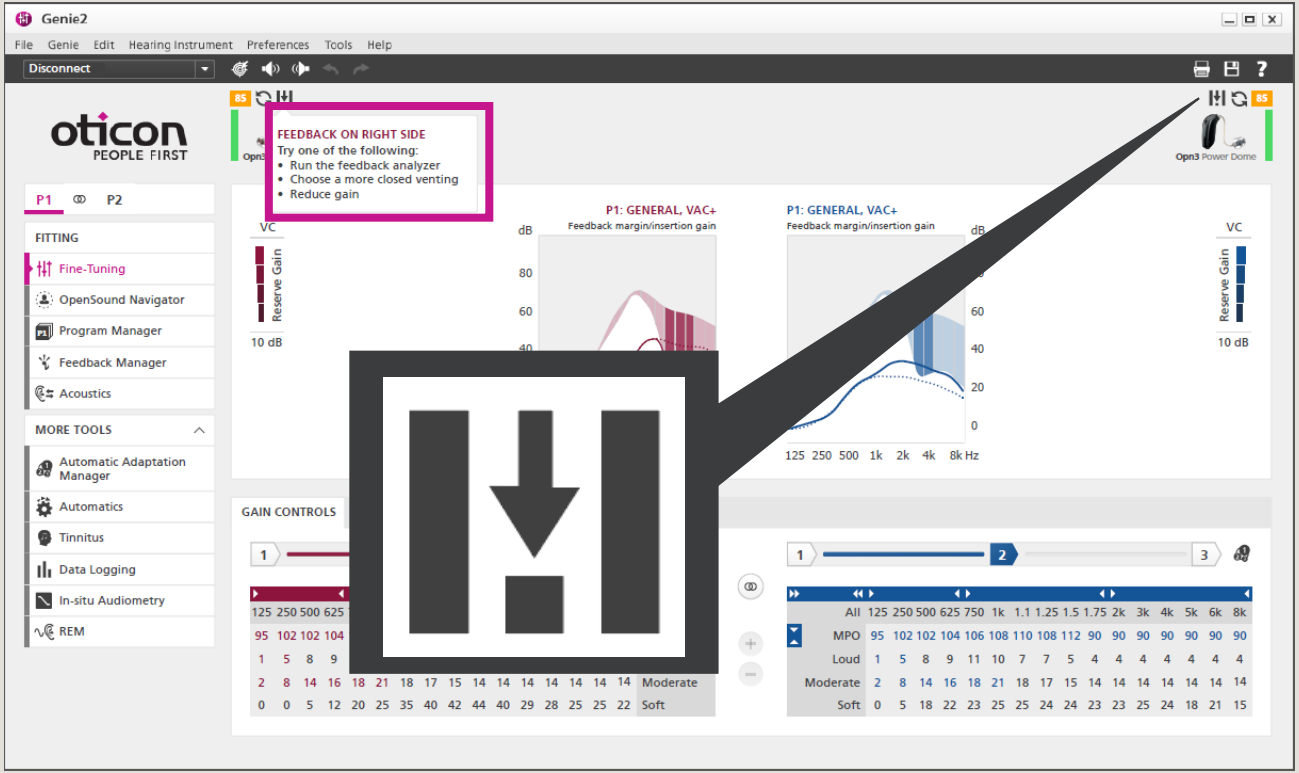
Unstable gain indicator

New symbol in status bar indicating feedback risk

- Only appears when +6dB loop gain is exceeded
- Indicates area of increased FB risk
- Suggestions given for precautions to take
- Target match is prioritized



Facts about Unstable gain indicator

- Target match takes priority – no predicted limits placed on prescribed or adjusted gain
- Indicator is based on real-time data from HA being in ear canal.
- Hearing aids must be connected and unmuted
- Indicator <u>samples gain once per second</u>
- Prescribed vent and rationale targets have not changed

- **Recommendation to always run feedback analyser??**
  - No longer necessary for >80% of fittings
  - Indicator and pop-up alert the HCP to run, if necessary

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What is gone

- **The predicted feedback limits**
  - Can be reactivated in Preferences if desired.
  - Reason: OSO enables less feedback management from the HCP, since it proactively eliminates feedback (Feedback shield LX is not fast enough)
- **Recommendation to always run feedback analyser**
  - No longer necessary for >80% of fittings
  - Indicator and pop-up alert the HCP to run, if necessary

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Bimodal fitting

Bimodal fitting panel

Re-introduction

- Oticon Xceed
- Oticon Xceed Play
- Oticon Opn S
- Oticon Opn Play

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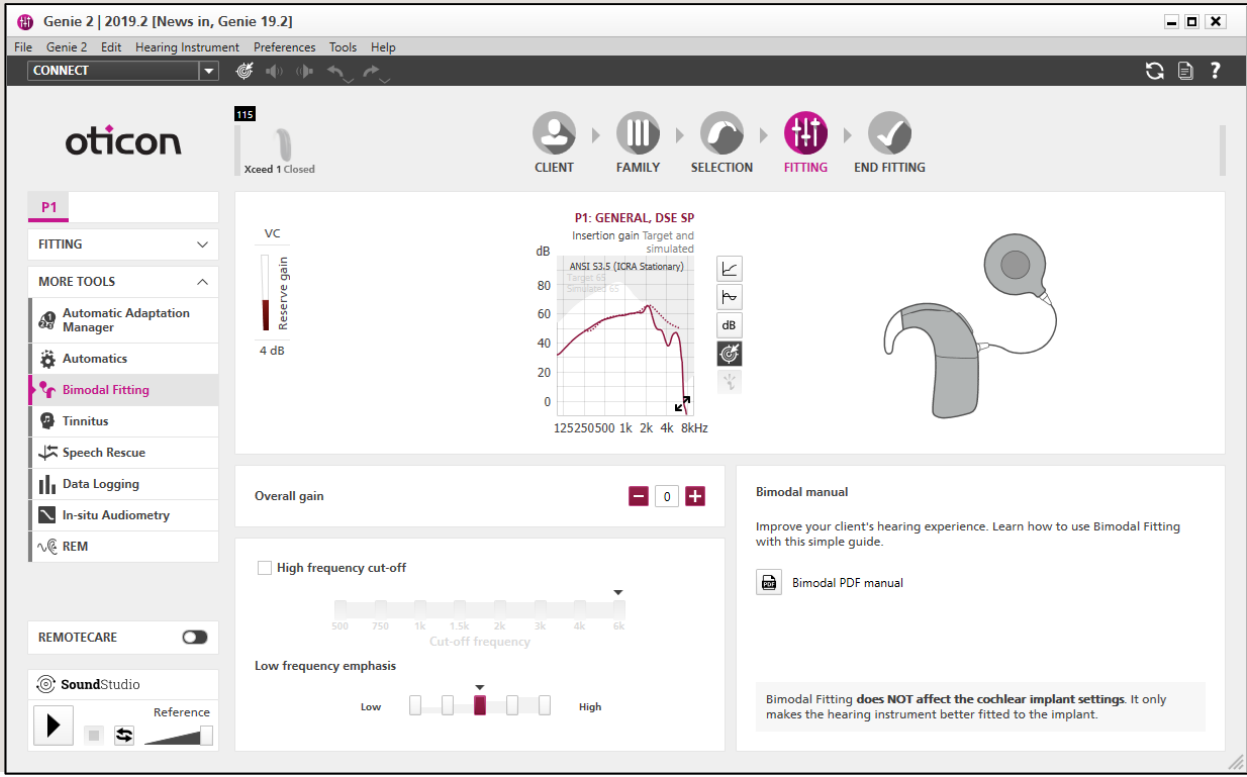
Bimodal fitting panel

Screen overview

- Overall gain
- High frequency cut-off
- Low frequency emphasis
- Bimodal flowchart



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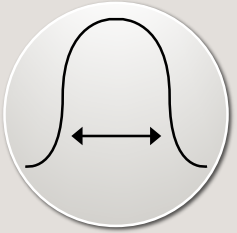
Bimodal fitting protocol

The four fitting approaches



- Wideband fitting
- Provides both high and low frequency information
- Match targets

- Restricted bandwidth fitting
- Reduces high frequency amplification when necessary

- Frequency lowering
- Allows high frequency detection utilizing Speech Rescue™ LX

- Loudness balancing
- Overall gain trimmer balances the perception of sounds

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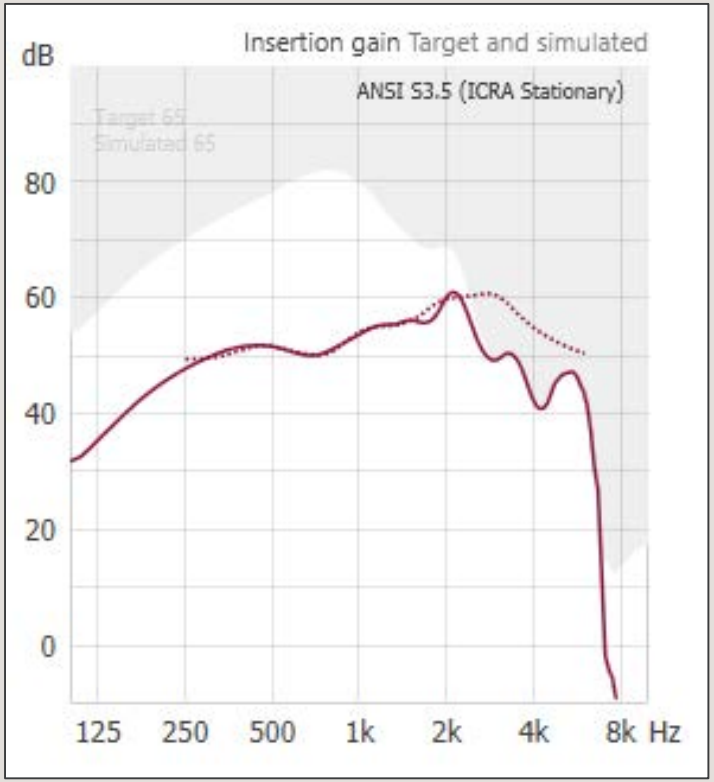
Wideband fitting

Bimodal fitting protocol

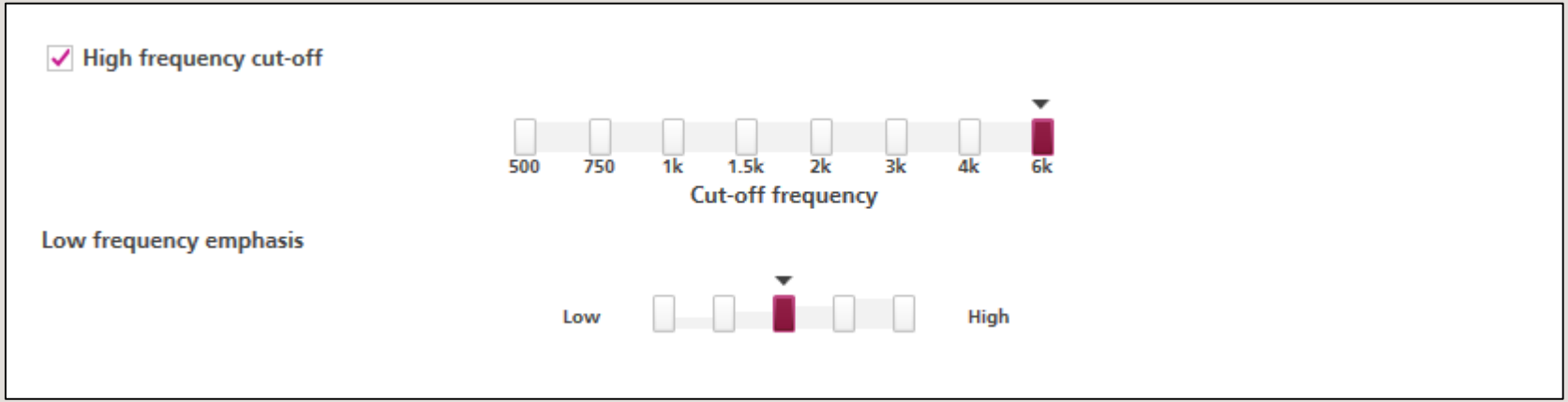
- Match targets for as wide a bandwidth as possible
- Verify insertion gain
- Perform Loudness Balancing in CI+HA mode
- Verify bimodal benefit



Restricted bandwidth fitting

Bimodal fitting protocol

- High frequency cut-off
- Low frequency emphasis



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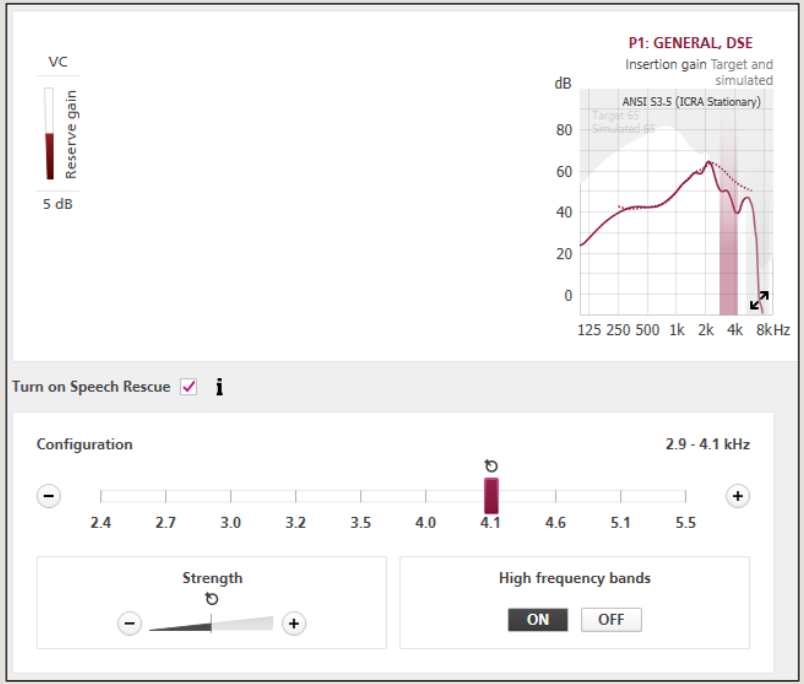
Frequency lowering

Bimodal fitting protocol

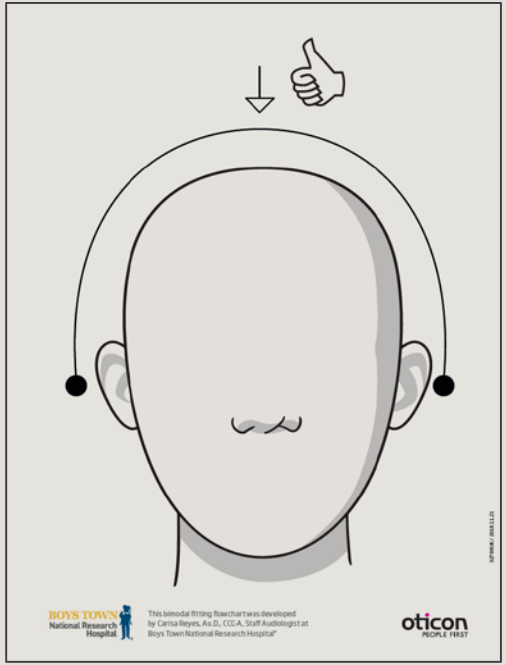
- An individual setting is automatically prescribed for the patient
- Optimize frequency lowering settings
- Perform Loudness Balancing and verify bimodal benefit



Loudness Balancing: CI + HA

Bimodal fitting protocol

- **Adjusting the loudness of the hearing aid** to the cochlear implant is the LAST step in order to enhance binaural sound localization and speech recognition benefits.



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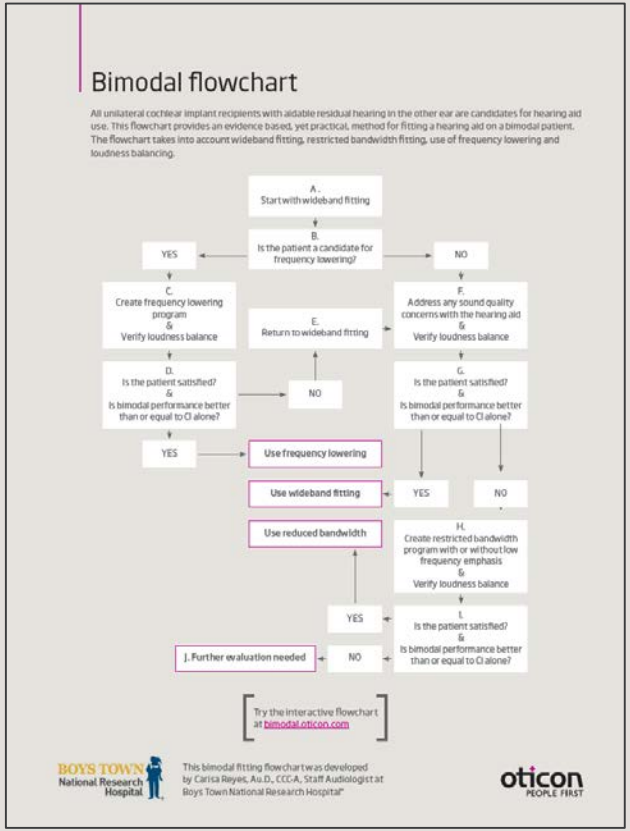
Steps in the Bimodal Flowchart

Enhancing clinical workflow

- Accessed via the PDF icon within the bimodal fitting panel in Genie 2.
- The PDF also provides access to the online interactive fitting flowchart found at bimodal.oticon.com



CROS

Oticon CROS (avail as minRITE T style only)

Compatibility: must be FW 8.0 instruments

Oticon Xceed / Xceed Play

BTE SP

BTE UP

Oticon Opn S 1 & 2 / Opn Play 1

miniRITE

miniRITE T

miniRITE R

BTE PP

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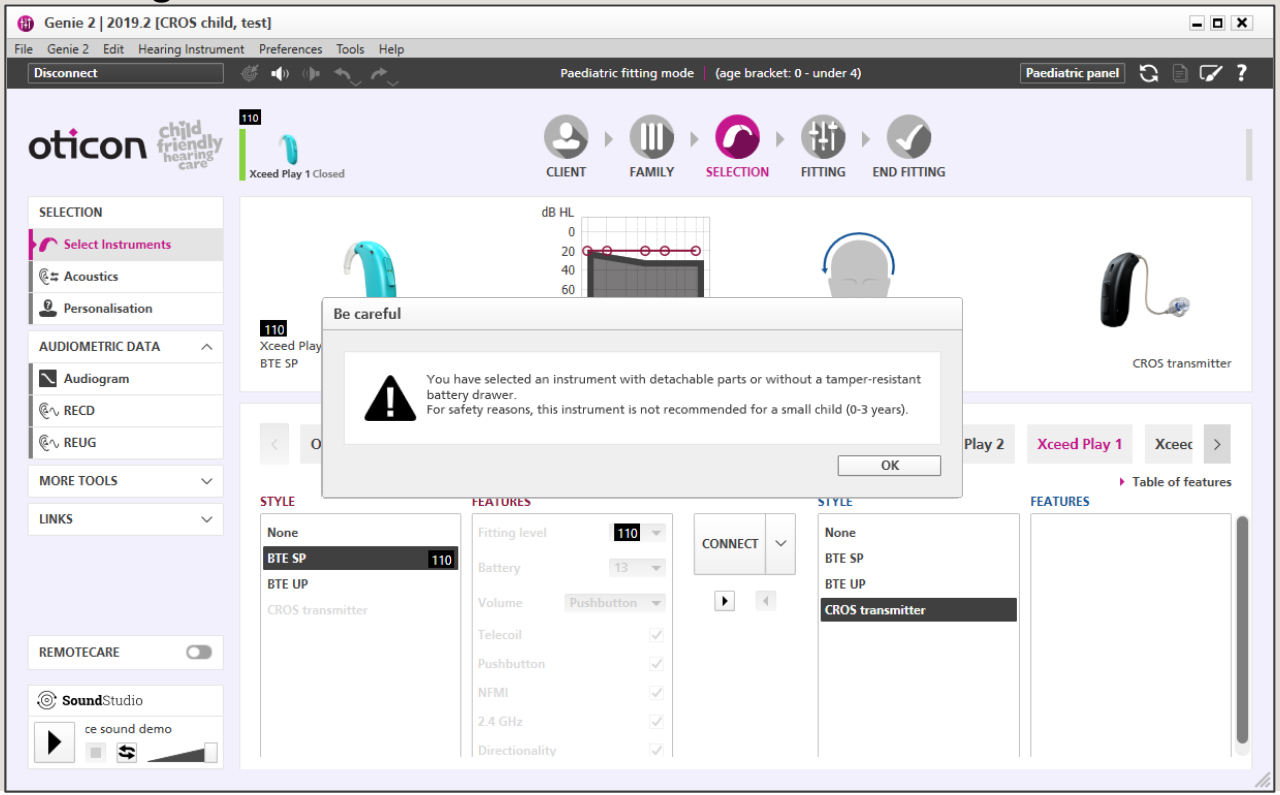
CROS fittings available for everyone

Warning for children below 36 months



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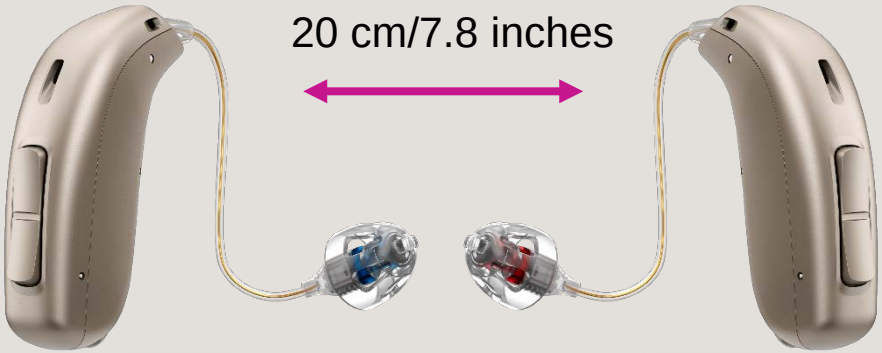
Detection / selection and pairing

- Place transmitter and receiver within 20-30 cm
- Fresh batteries, no need to open and close the battery door



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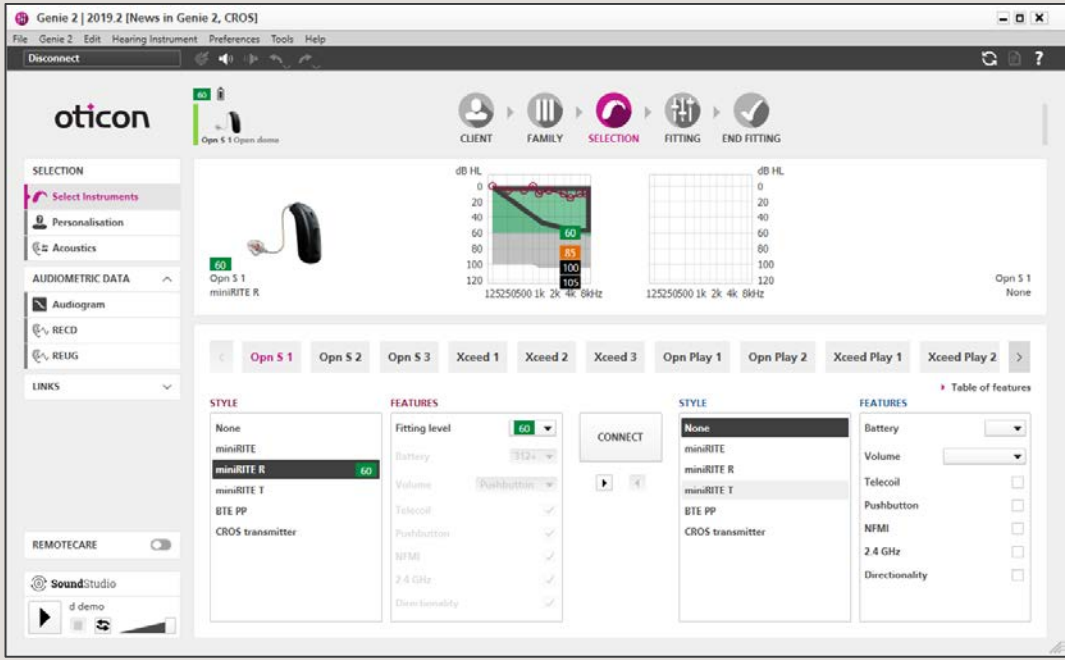
Detection / selection and pairing

- Place transmitter and receiver within 20-30 cm
- Detect the hearing aid/receiver device
  - Must be FW 8.0
- NEXT, Select CROS transmitter
- No detection/connection of CROS Transmitter



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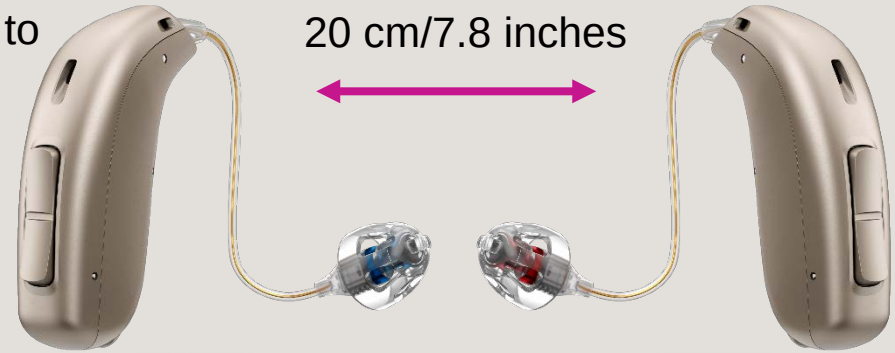
Detection / selection and pairing

- NOW Go to **FITTING**
- Automatic Proximity pairing
- **Now** transmitter is alive – can you hear it?
- Rub or scratch the CROS mic, listen to other aid



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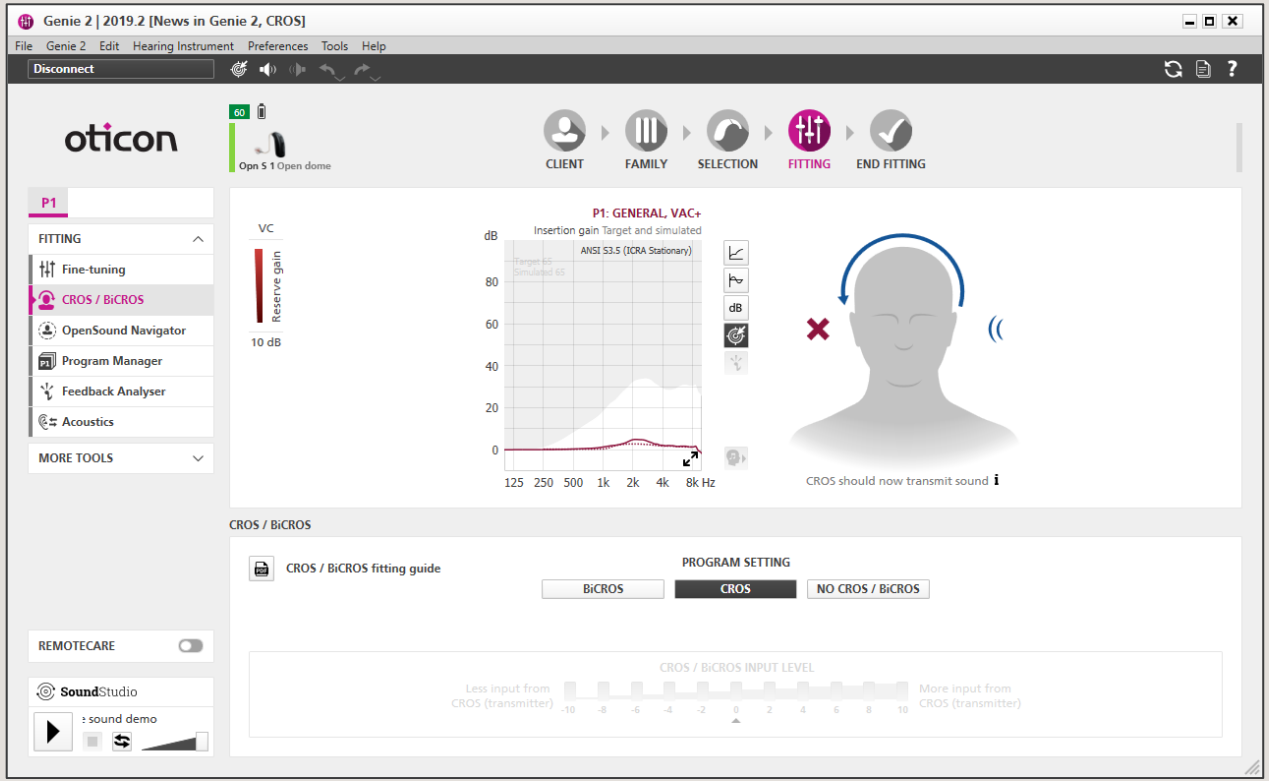
CROS or BiCROS configuration

Choose!



- CROS: hearing aid microphone is off
- BiCROS: hearing aid microphone on
- No CROS / BiCROS: transmitter is off - Possible as a second program – monaural fitting ?

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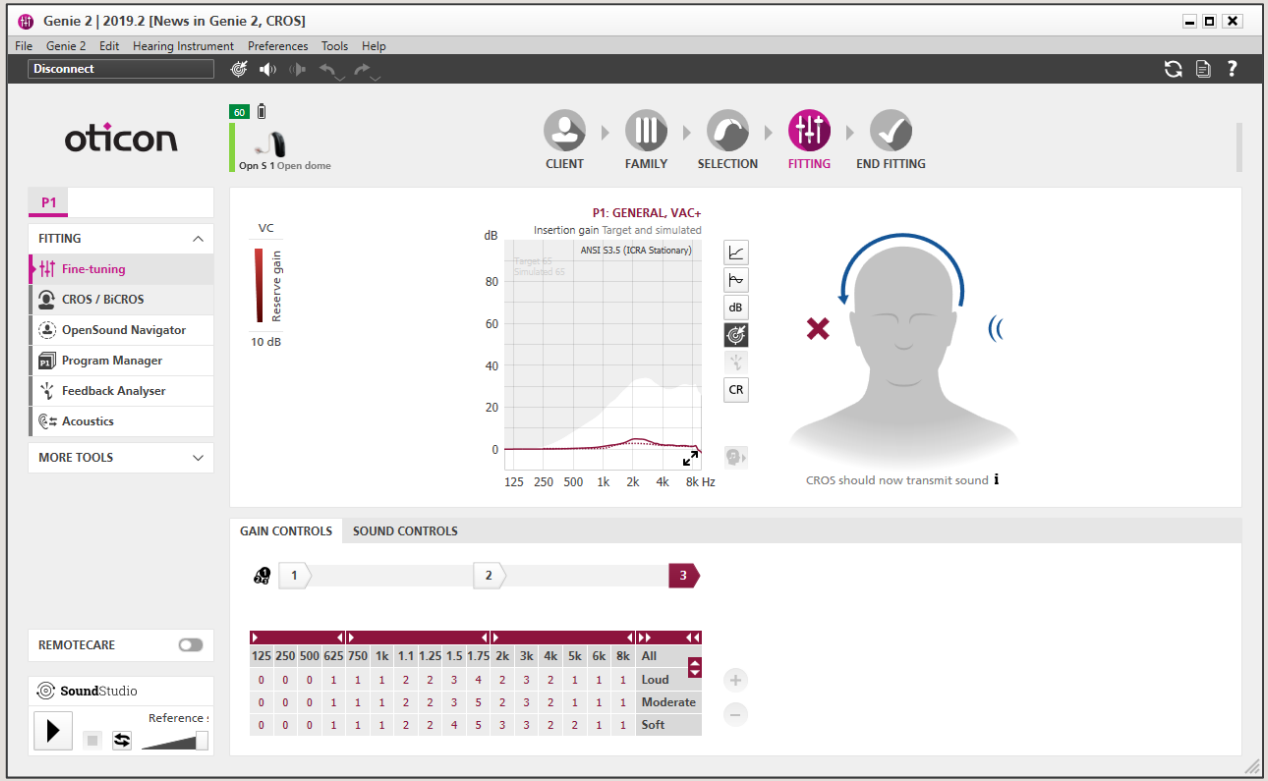
CROS fitting



- Adjust Adaptation Manager and overall gain for the <u>transmitted</u> signal
- Mic is OFF on normal ear instrument

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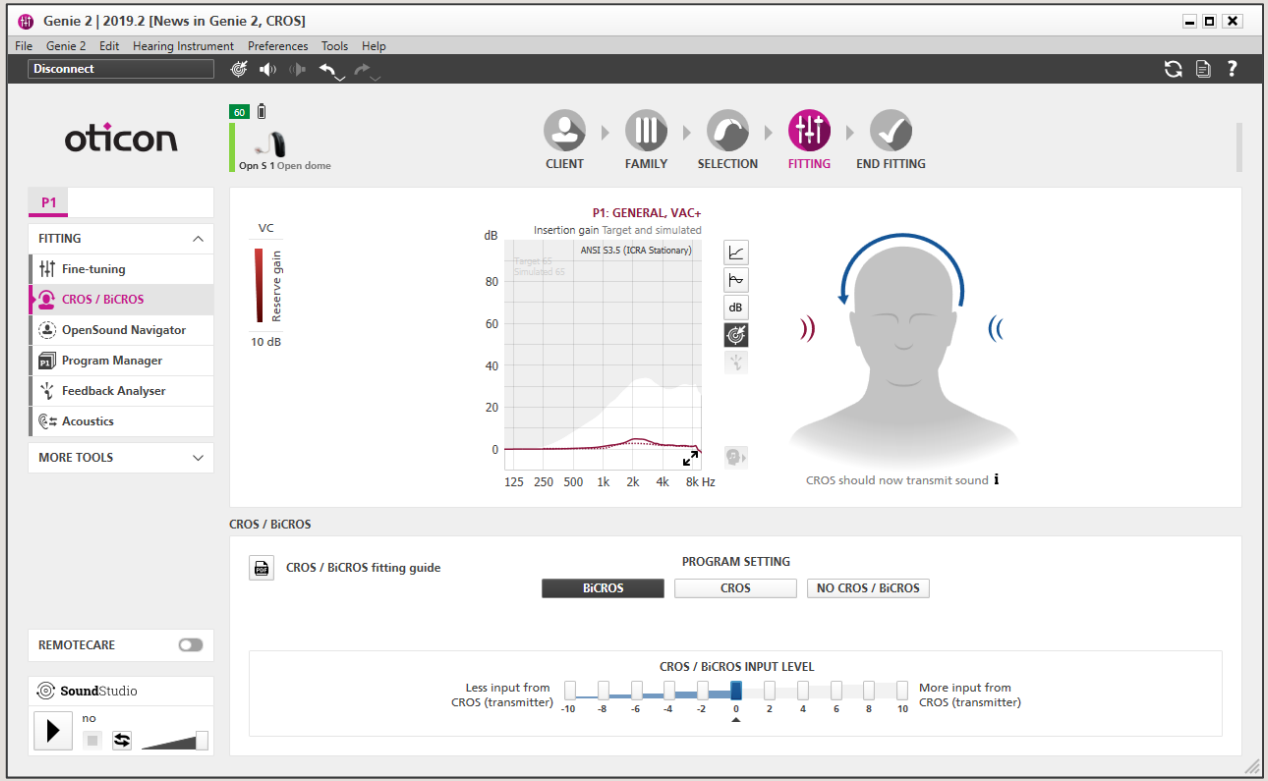
BiCROS fitting

Adjusting TRANSMITTER signal



- Balance sound from transmitter and receiver
- 2 dB steps
- Default to 0, equal sound from Tx and Rx
- Can be adjusted -10 to +10

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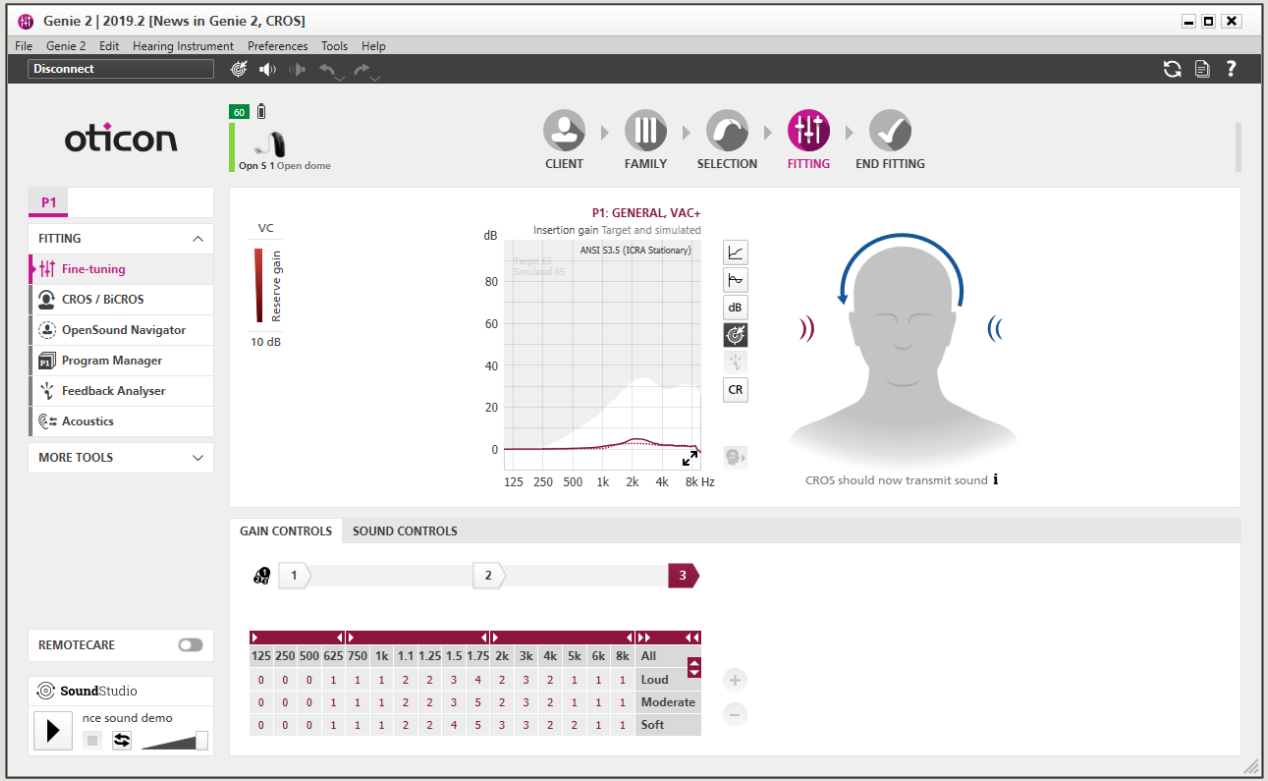
BiCROS fitting

Adjusting RECEIVER hearing aid signal



- Receiver INPUT is fixed
- Adjusting receiver output
- Target is based on the audiogram

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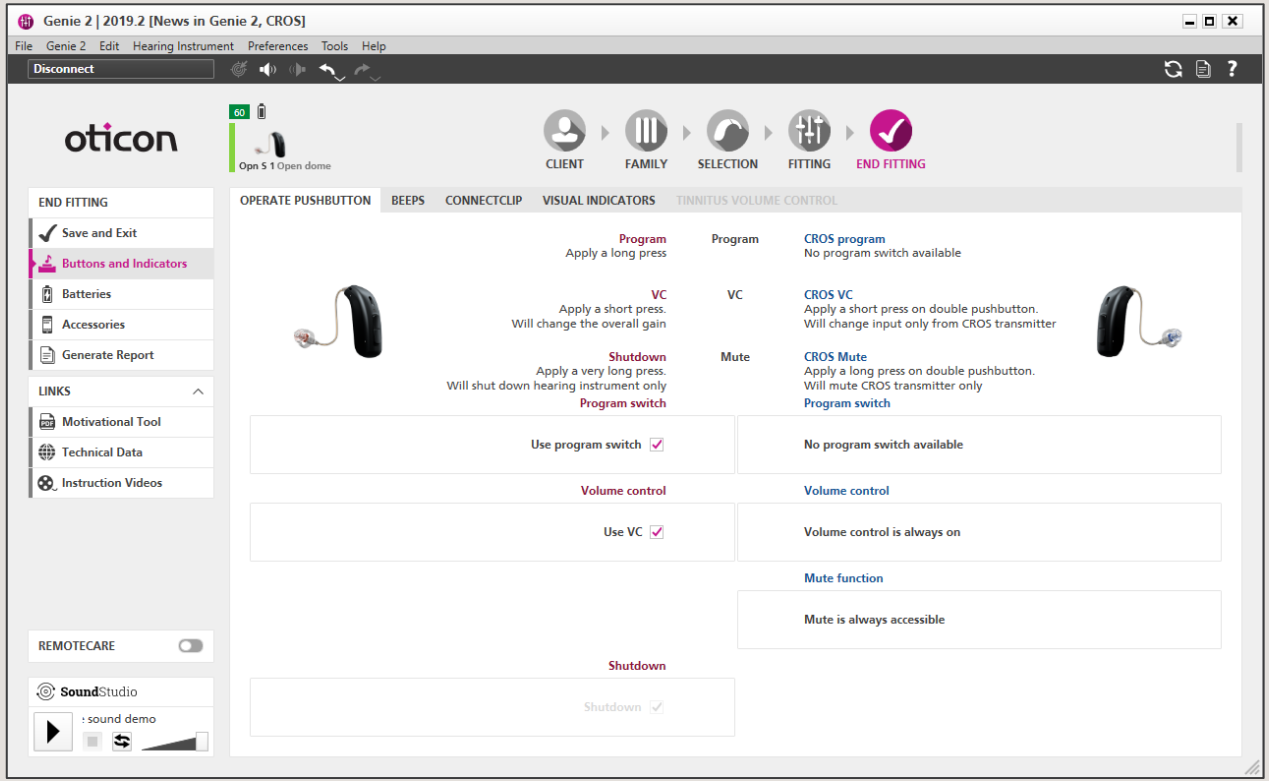
CROS / BiCROS settings in End Fitting

Pushbuttons



- No options for button configuration of transmitter

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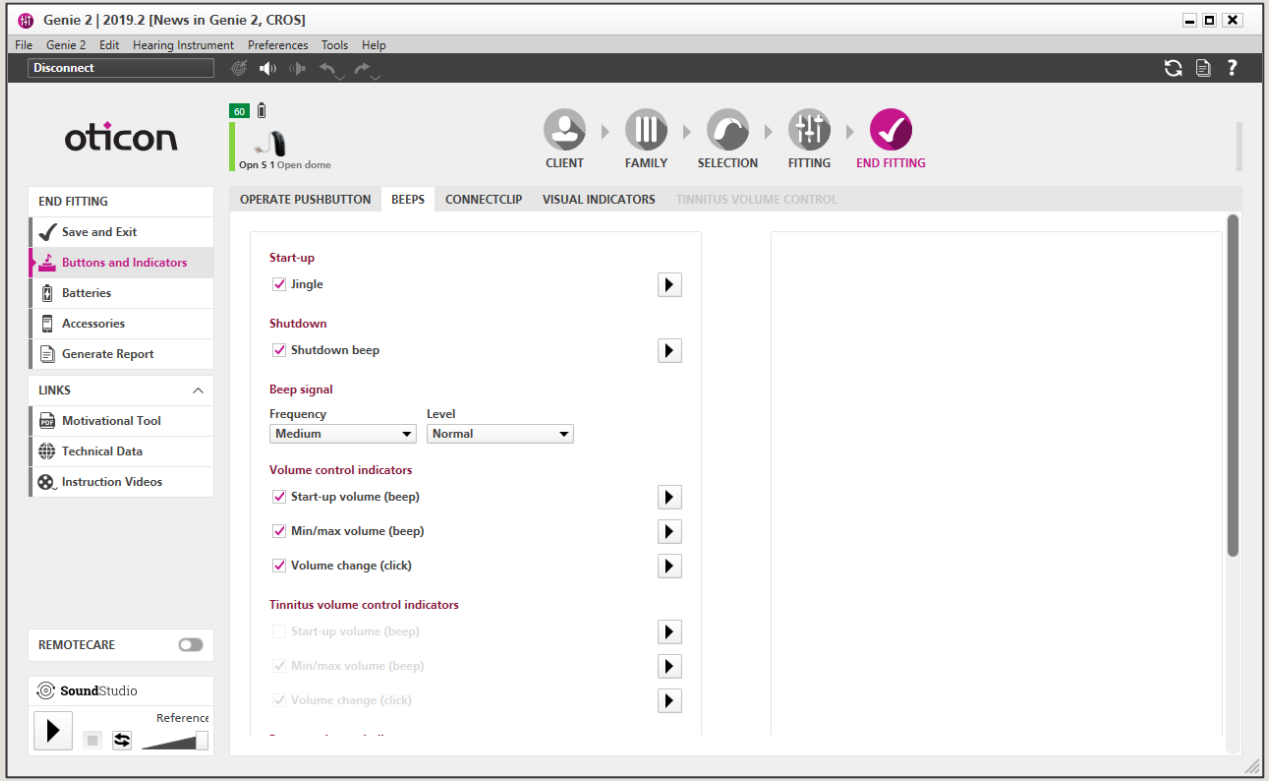
CROS / BiCROS settings in End Fitting

Beeps



- No options for beeps configuration of transmitter
- Beeps are HF for Transmitter alerts
- Beeps are Mid Freq for receiver alerts
- Helps user to distinguish between the 2 devices

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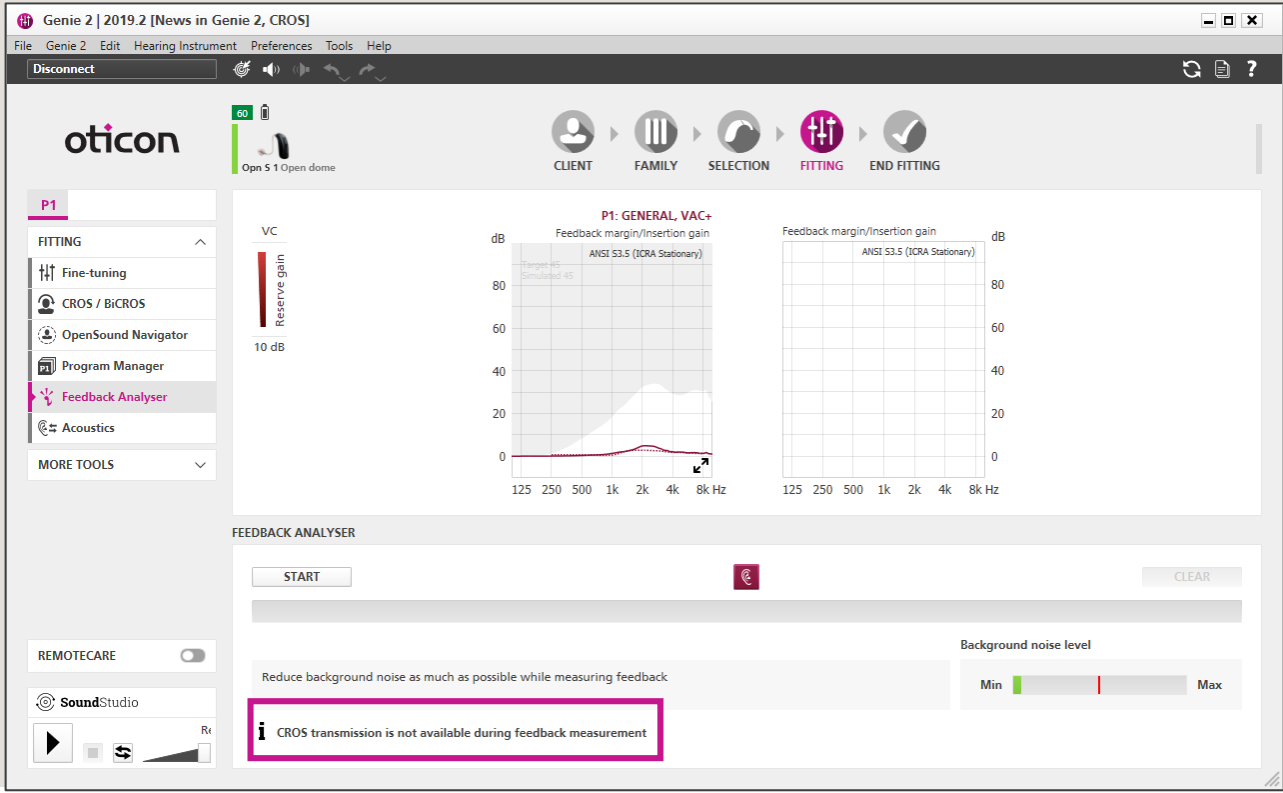
Features without live streaming

To avoid interference

- Feedback Analyser
- In-situ Audiometry
- Technical measurements



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REM AutoFit

Reminder: What are REM AutoFit, IMC 2 and Verifit®*LINK*?

REM AutoFit in **19.1**

Communication protocol	IMC 2	Verifit®*LINK*
Measurement protocol	Insertion Gain	**Speech mapping**

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REM AutoFit in **19.2**

Communication protocol

IMC 2

Verifit®*LINK*

Measurement protocol

Insertion Gain

Speech mapping

Speech mapping
(simultaneous binaural measurements)

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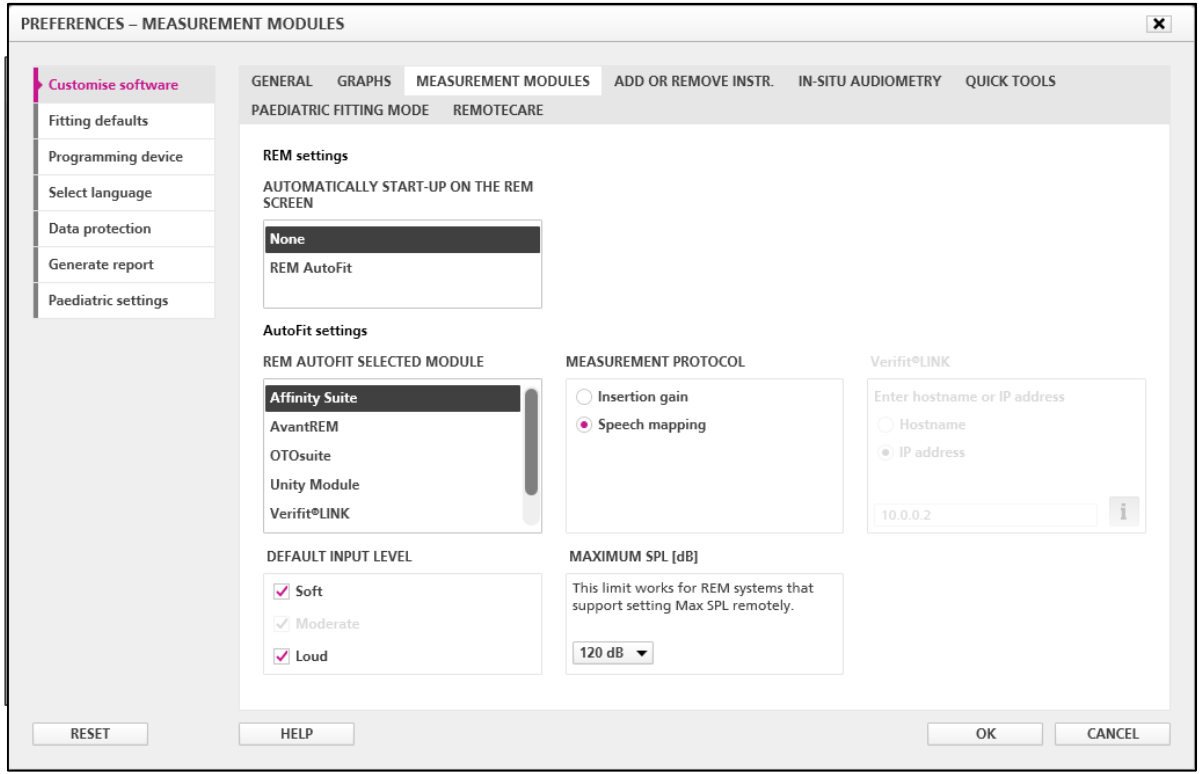
Speech mapping in REM AutoFit

REM AutoFit with IMC2

Speech mapping

- Insertion gain is default
- Go to Preferences > Measurement Modules
- Select Speech mapping under MEASUREMENT PROTOCOL
- Set MAXIMUM SPL if required



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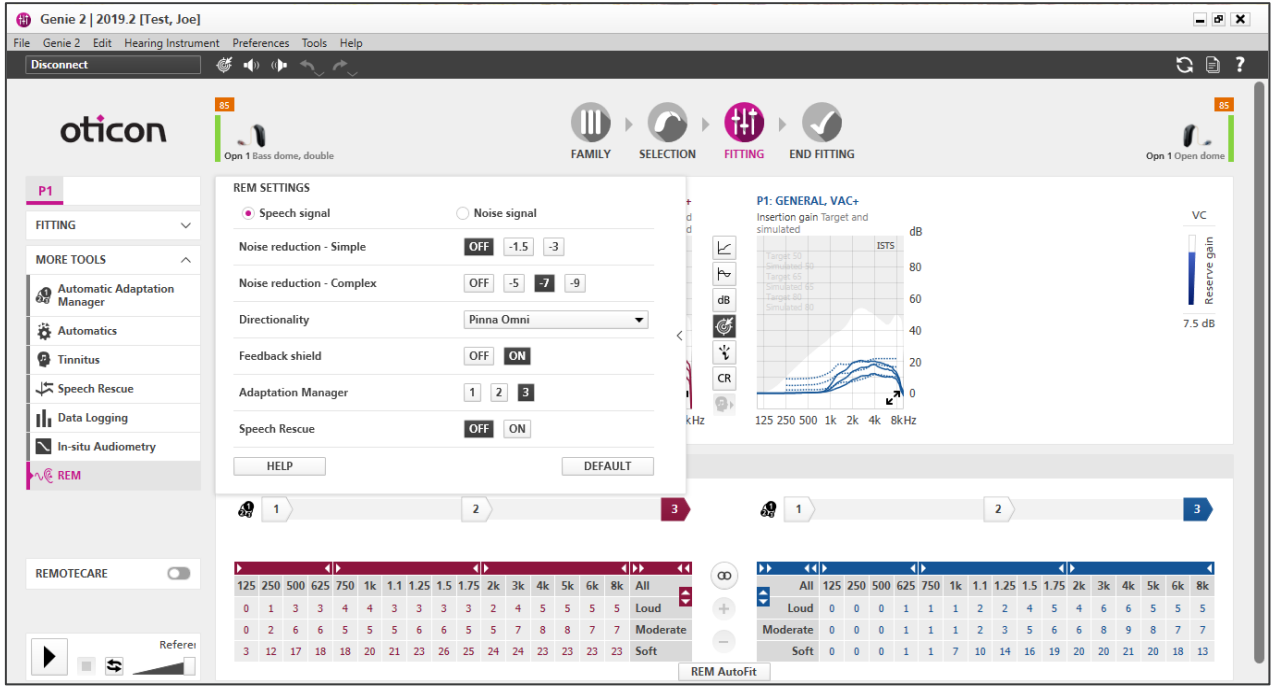
REM AutoFit with IMC2

Speech mapping

- Launch REM AutoFit from the REM tool



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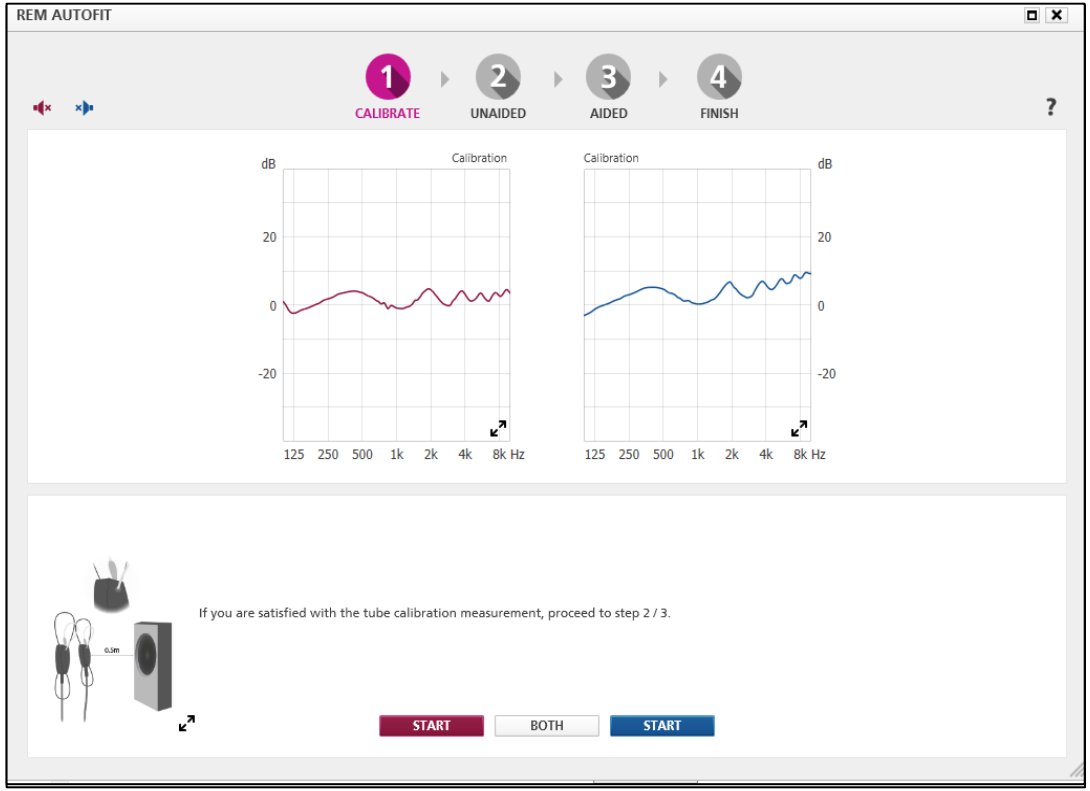
REM AutoFit with IMC2

Speech mapping

- Perform tube calibration
- Go to Step 2: Unaided if you'd like to check probe positioning
  - Or…
- Skip to Step 3: Aided



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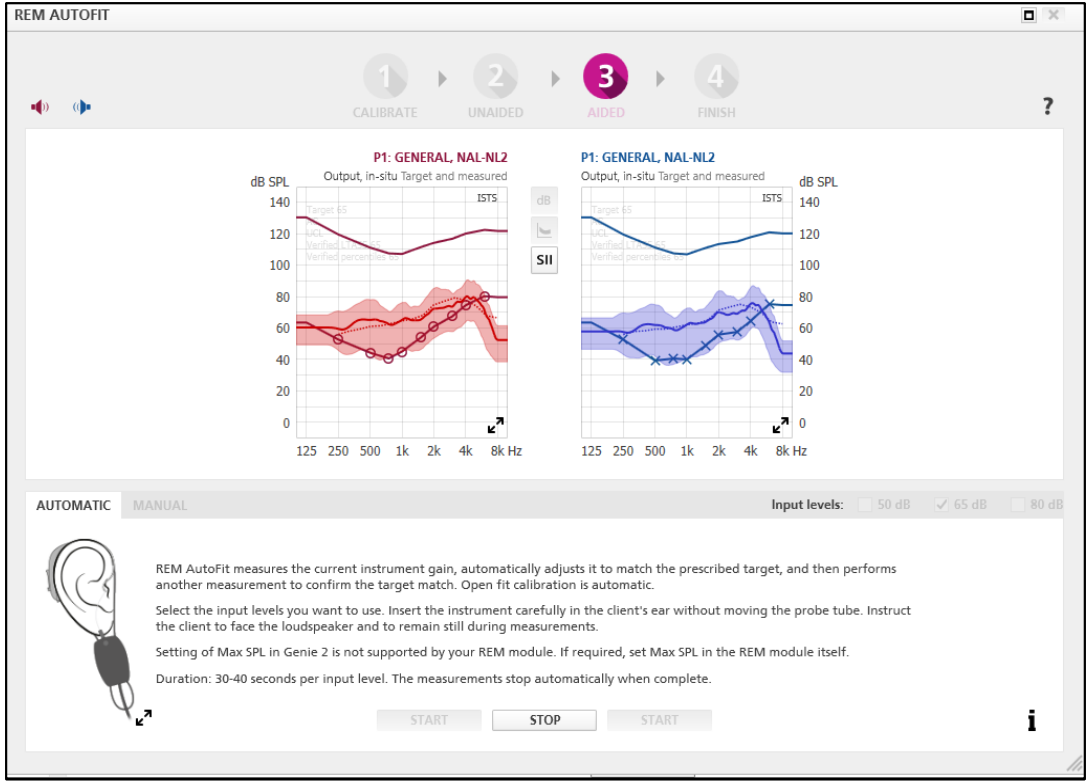
REM AutoFit with IMC2

Speech mapping

- Check which input levels you want
- Perform automatic aided measurement sequence
- View initial curves, percentiles and SII
- Go to Manual tab if required or to Step 4: Finish



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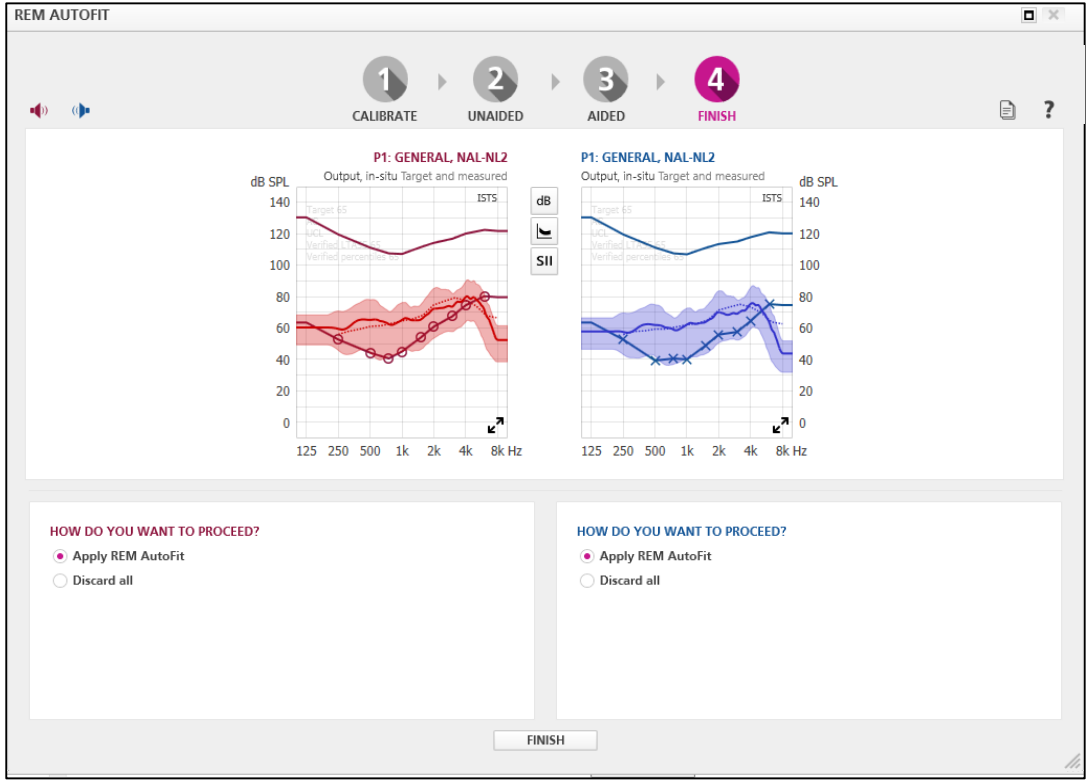
REM AutoFit with IMC2

Speech mapping

- Accept or discard the changes made



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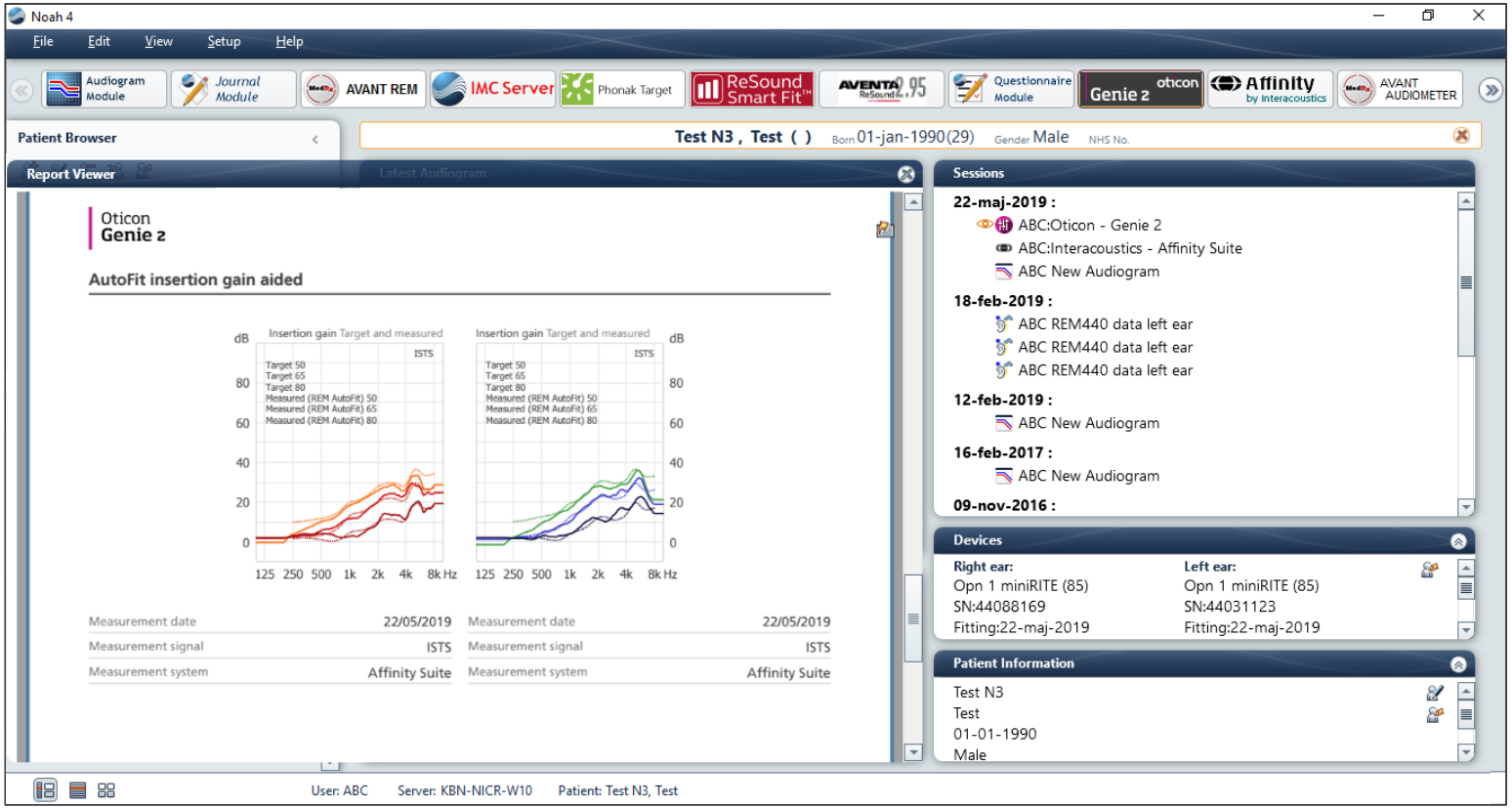
REM AutoFit on Fast Data View



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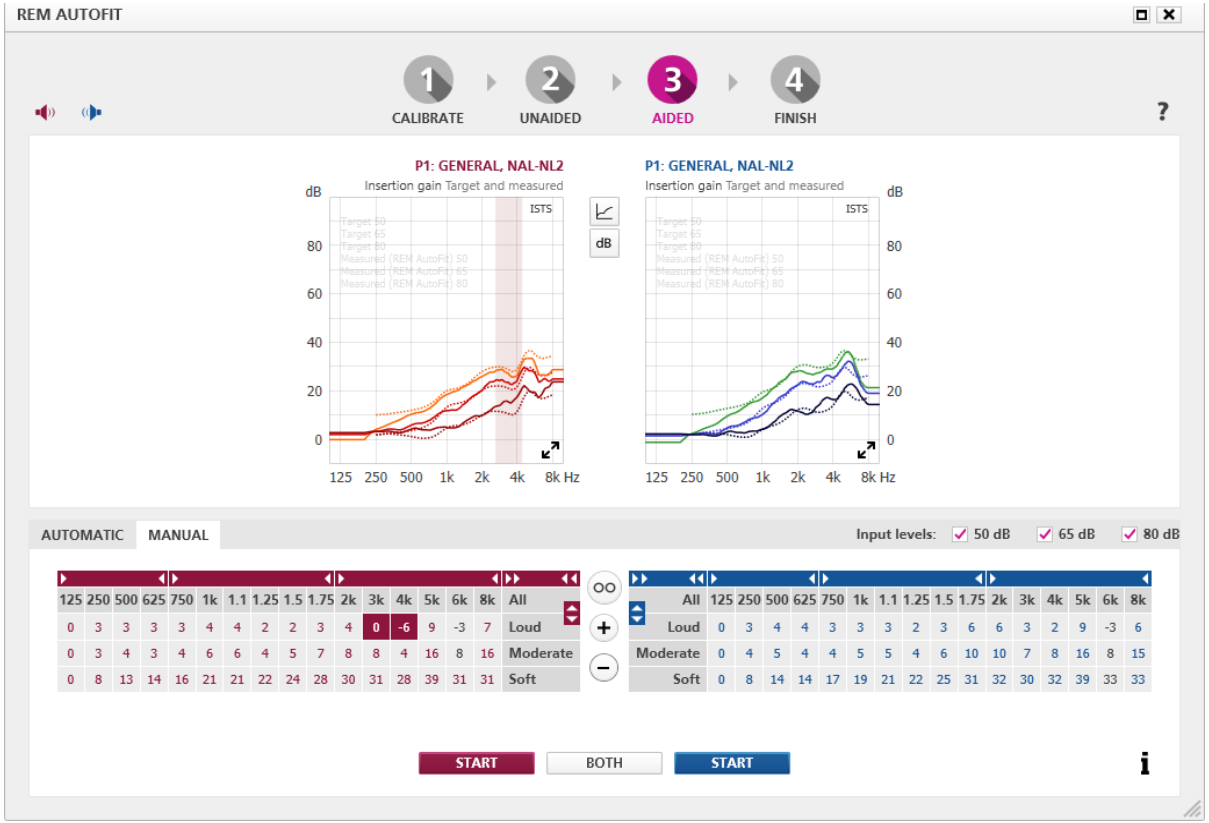
REM AutoFit – frequency band indication

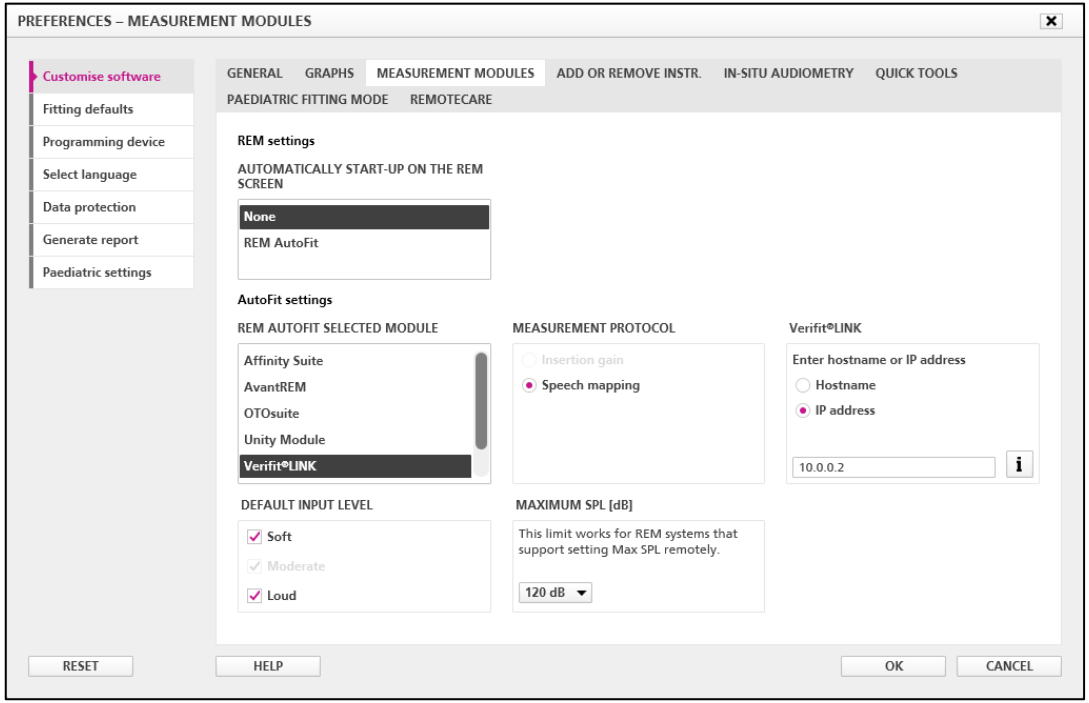


Simultaneous binaural measurements with Verifit*LINK*

REM AutoFit with Verifit®*LINK*

Preferences

- Only Speech mapping
- Option to select Max SPL



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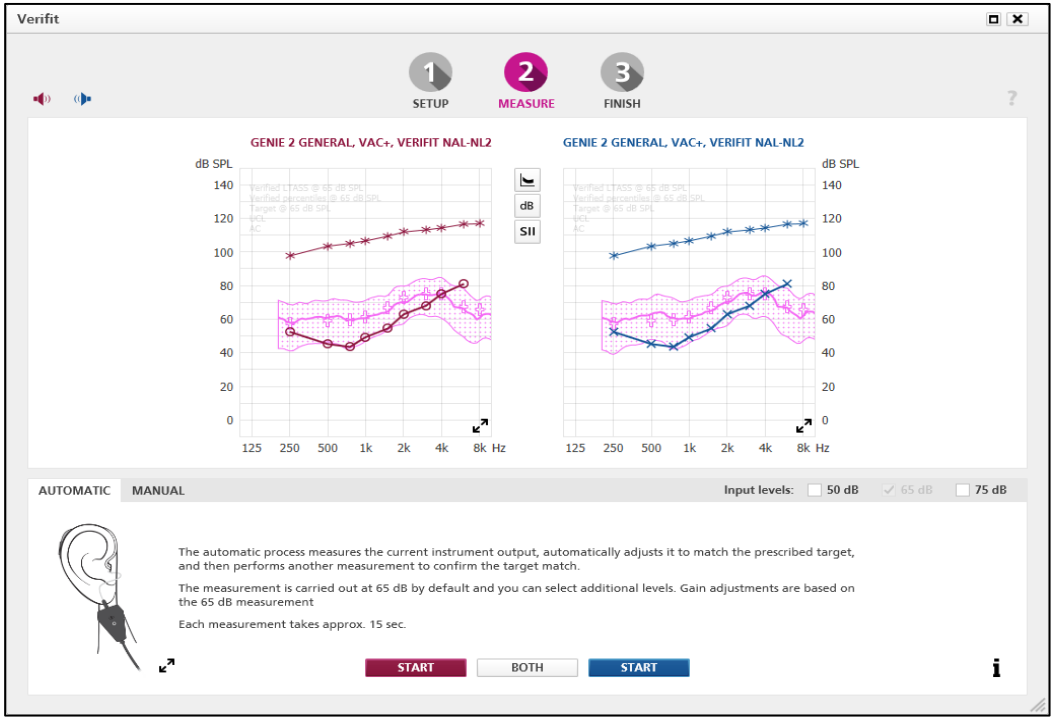
REM AutoFit with Verifit®*LINK*

Simultaneous Binaural Measurements

- Press BOTH as before
- Both sides measure at same time if Verifit2 with latest software
- Verifit1 and Verifit2 with older software will measure sequentially



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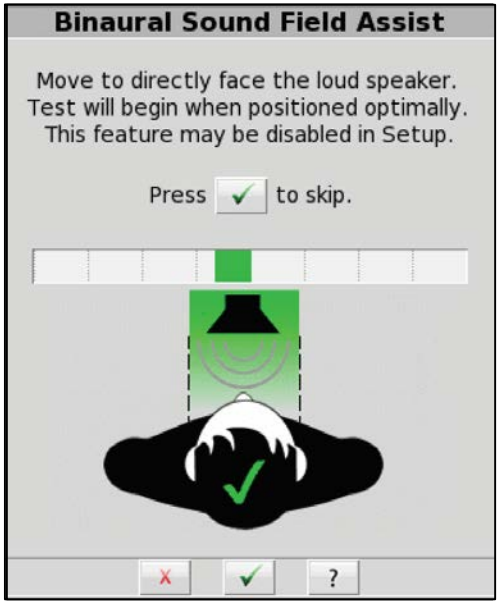
REM AutoFit with Verifit®*LINK*

Binaural Sound Field Assist

- For not equal signals Genie 2 will prompt to follow instructions on Verifit2 screen



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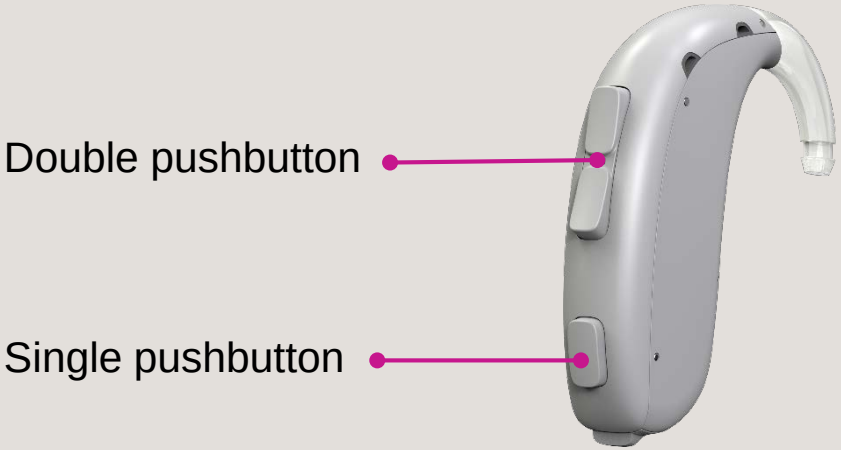
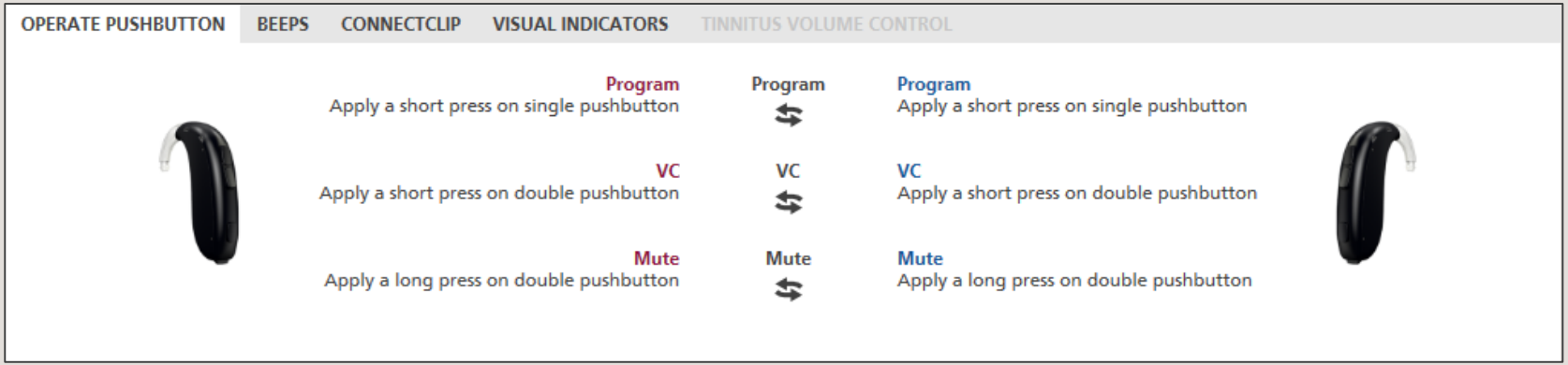
End Fitting

Pushbutton functionality

Three button concept

- Single pushbutton
  - Program change
  - Flight mode
- Double pushbutton
  - Volume
  - Mute





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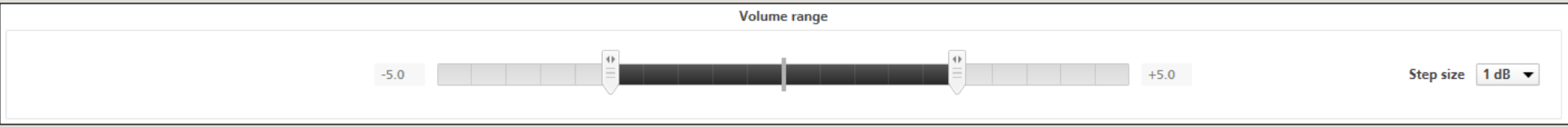
Adjustable volume control settings

Steps and range

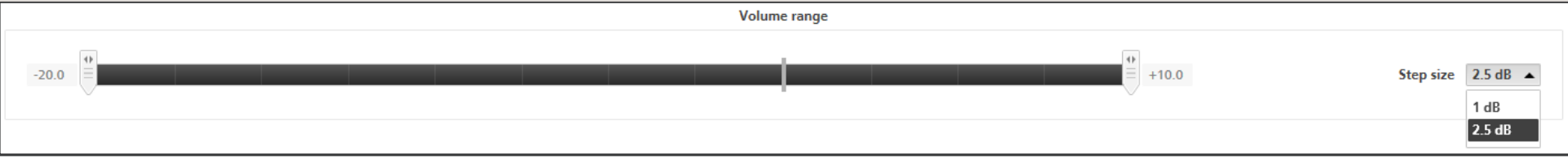
- Configurable step size
  - 1 dB step size (default)
    - Range from -10 dB to +10 dB
      - Default from -5 dB to +5 dB
- One setting for all programs
- Info when VC range is not available in a program

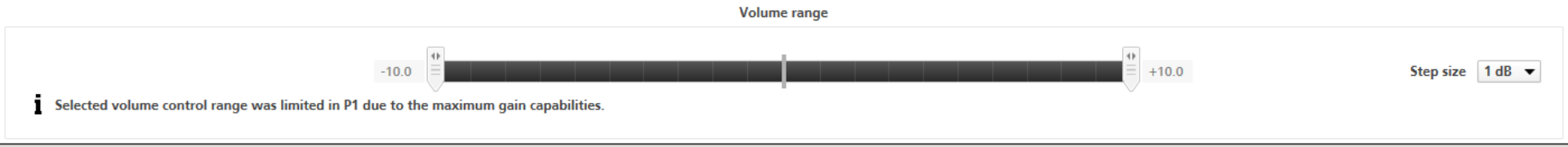


Adjustable volume control settings

Steps and range

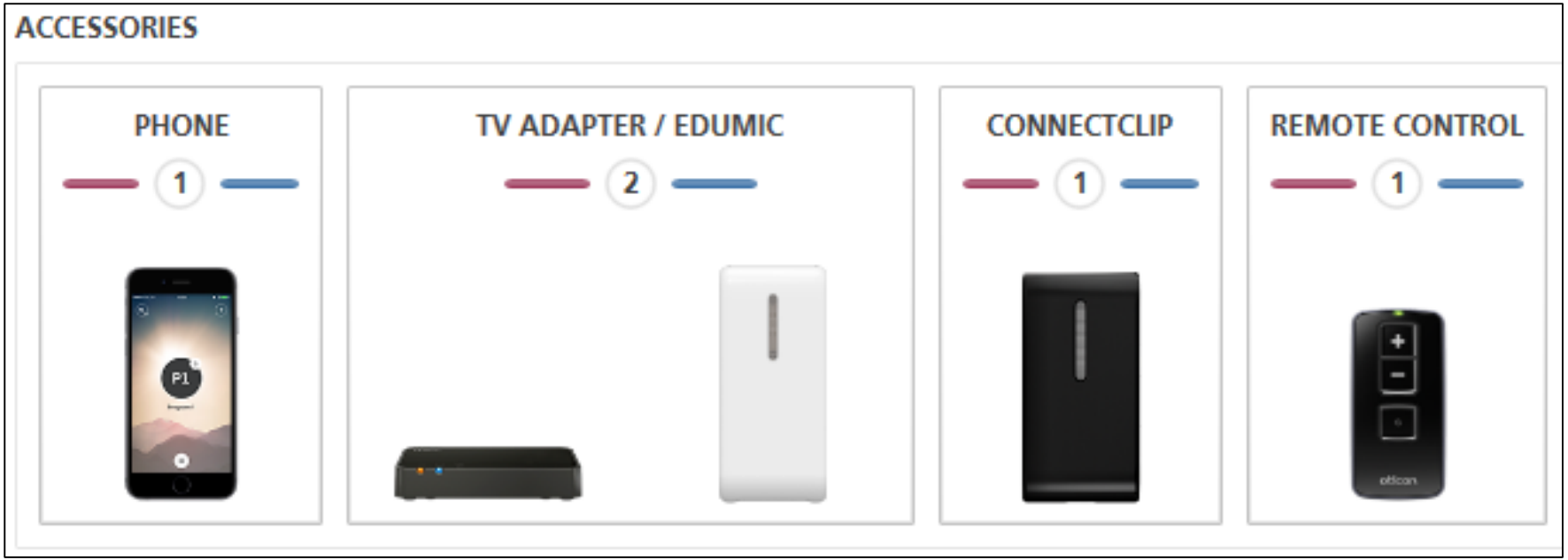
- Configurable step size
  - 1 dB step size (default)
    - Range from -10 dB to +10 dB
      - Default from -5 dB to +5 dB
  - 2.5 dB step size
    - Range from -20 dB to +10 dB
- One setting for all programs
- Info when VC range is not available in a program





Connection to accessories

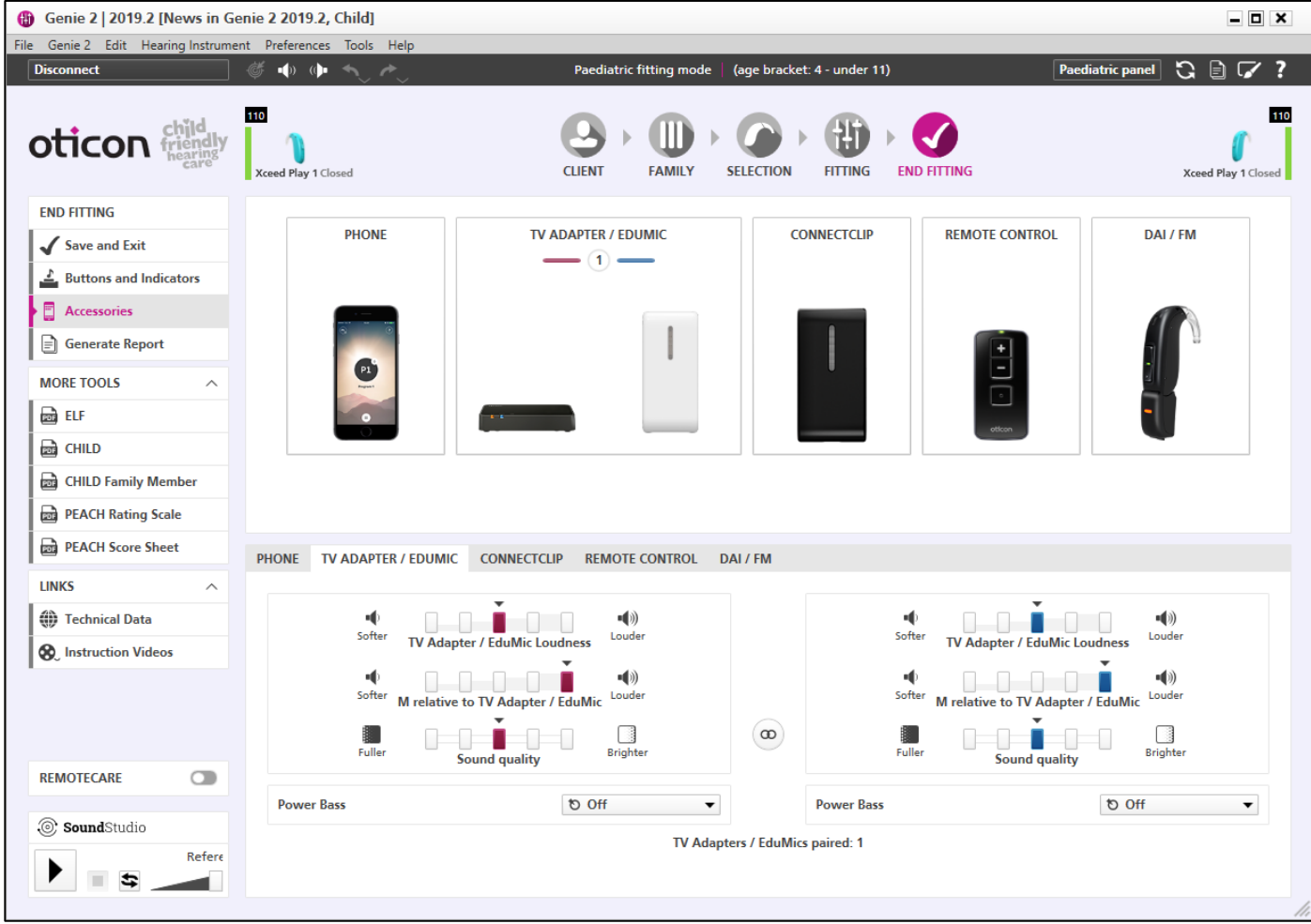
Red/Blue line indicates paring to HI; Number indicates how many accessories paired



EduMic

Accessories

- EduMic shares settings with TV Adapter



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Pairing options and management

- Shared TV adapter/EduMic program
- Pair up to four TV adapters/EduMics*
- Easy switching between TV adapter & EduMic

*Oticon Opn S, Opn Play, Xceed & Xceed Play

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EduMic + Oticon ON App

Streaming and environmental control

- Control sound streamed from EduMic to aids
- Select STREAMING to adjust volume of EduMic to aids
- Choose ENVIRONMENT to adjust the HA mic level <u>and</u> streaming together

Download on the App Store

GET IT ON Google Play

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Q&A