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Increasing Signia Solutions for All

Fall 2024



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Increasing Signia Solutions for All



audiologyonline

Webinar FAQs

- **How to earn CEUs:**
 - After the course, go to your Pending Courses on AudiologyOnline and pass the multiple-choice exam
 - Must have a paid membership to earn CEUs
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 - Call 800-753-2160
 - customerexperience@continued.com



Learner Objectives

Upon completion of this course attendees will be able to:

- 1) Describe the capabilities and benefits of the IX platform
- 2) Identify the additions and the new features available for Integrated Xperience
- 3) Discuss the wearer benefit of Real Time Conversation Enhancement (RTCE)



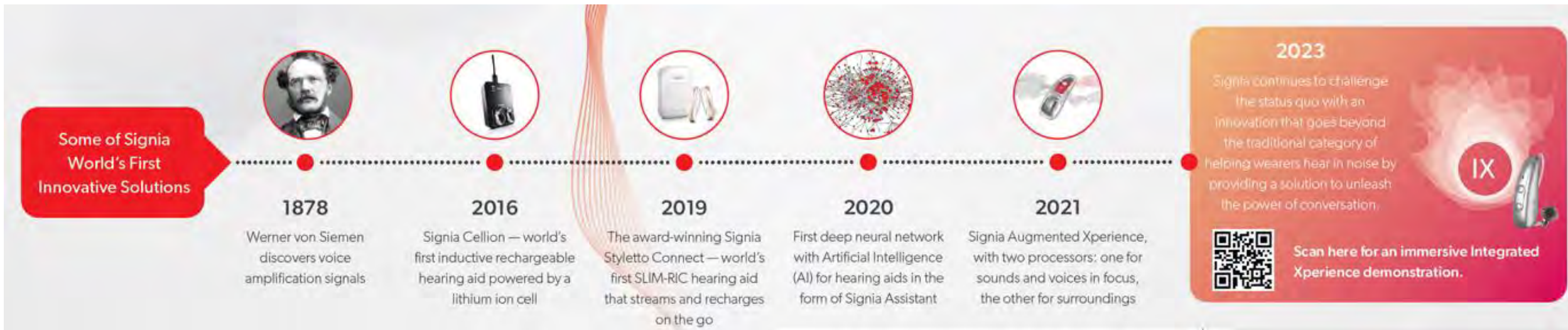
Increasing Signia Solutions for All

Fall 2024



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Signia's History of Innovation



140 years in the industry with many world's firsts

7 research hubs with over **1,100** employees

\$160 million annual investment in technology R&D

Pioneer of innovations across design, connectivity, and rechargeability

WS Audiology is the **#1** patent applicant for conventional assistive hearing technology

25% of the hearing aids globally are powered by Signia technology



Signia Delivers Ways to Help You Succeed



Innovative Solutions

that make you more
competitive.



Unparalleled Support

that helps you
build your business.



Service Excellence

that makes your business
run better.

Signia Delivers you a better value

How do you decide what's best for your patient?

- How do patients decide what hearing aids to choose for themselves?
- What's important to them?
 - Technology?
 - Lifestyle?
 - Cost?

How do you help them decide?



Is this what all patients look like?





Signia Portfolio



Pure
Charge&Go IX



Pure
Charge&Go T IX



CROS Pure
Charge&Go IX



Pure
312 AX



CROS Pure
312 AX



Styletto
IX



CROS Styletto
IX



Silk
Charge&Go
IX



CROS Silk
Charge&Go
IX



Insio IIC/CIC
IX



Insio
Charge&Go
AX



Motion
Charge&Go
SP X



Motion
Charge&Go
P X



Motion
Charge&Go
X



Active
X

Expanding Signia for All



Intuis 4 BTEs



Be
Brilliant™

Advanced technology for more of your customers

Intuis 4 BTEs feature advanced technology that delivers brilliant sound and speech clarity, plus the convenience of enhanced connectivity and Bluetooth streaming.

Suitable for all levels of hearing loss, the ergonomic design and easy-to-use controls of Intuis 4 make daily operation straightforward and comfortable.

The Signia App provides a suite of controls and communication options.



Equipped with Bluetooth



Signia app ready



4.7

4.5

4.3

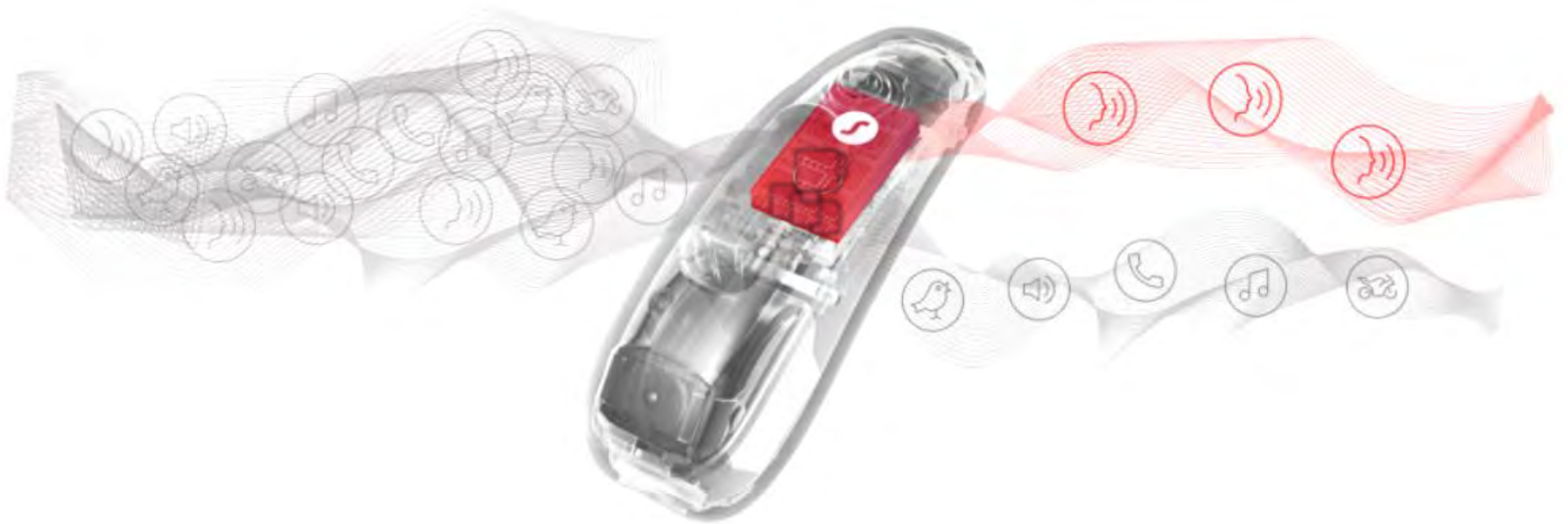
4.2

4.1

sDemo



Built upon split processing platform



No compromise in how speech and ambient sound are processed



Intuis 4 covers the full range of amplification needs

Three models to choose from: **Intuis M 4** , **Intuis P 4** and **Intuis SP 4**

	BTE		
Model	Intuis M 4	Intuis P 4	Intuis SP 4
			
Performance			
Matrix (2 ccm)	ThinTube 3.0: 61/125 dB SPL ThinTube 3.0 P: 64/126 dB SPL Earhook: 60/133 dB SPL	ThinTube 3.0: 66/129 dB SPL ThinTube 3.0 P: 70/130 dB SPL Earhook: 77/135 dB SPL	Earhook: 82/140 dB SPL
Battery			
Size	13	13	675



Intuis M 4



Size 13 battery

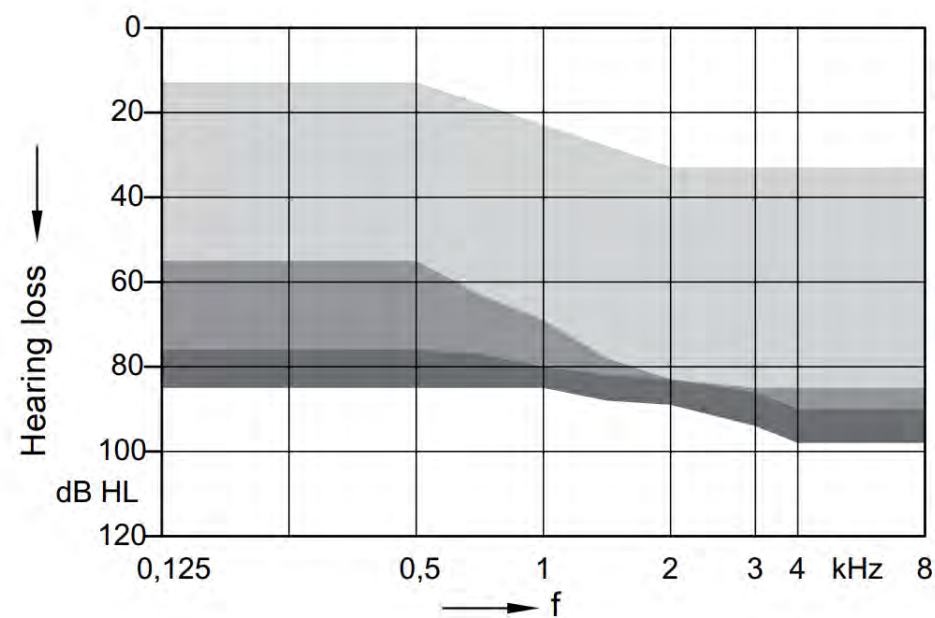
Battery runtime (without streaming)

up to 142 h

Battery runtime (incl. 20 h streaming)

up to 129 h

Intuis M 4 | Fitting Range



ThinTube 3.0 + Eartip 3.0 Open
ThinTube 3.0 P + Sleeve 3.0 Power
Earhook + Mold



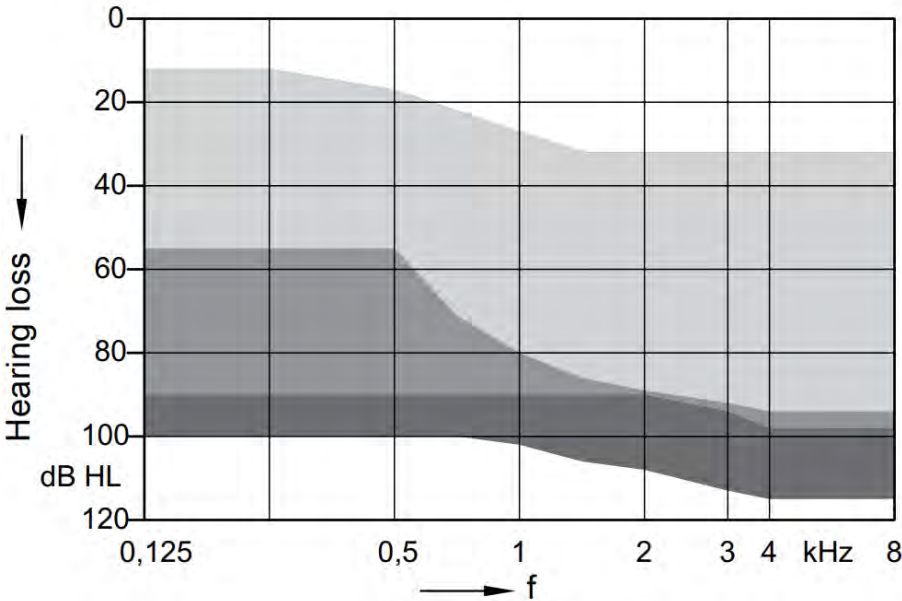
Intuis P 4



Size 13 battery

Battery runtime (without streaming)	up to 148 h
Battery runtime (incl. 20 h streaming)	up to 115 h

Intuis P 4 | Fitting Range



- ThinTube 3.0 + Eartip 3.0 Open
- ThinTube 3.0 P + Sleeve 3.0 Power
- Earhook + Mold



Intuis SP 4



Size 675 battery

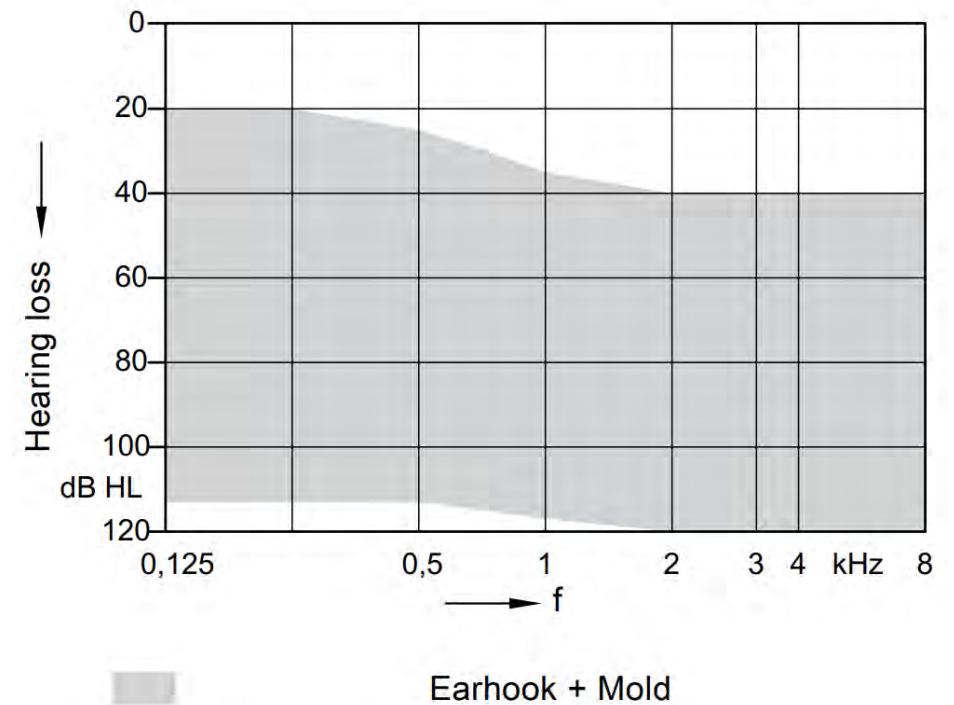
Battery runtime (without streaming)

up to 277 h

Battery runtime (incl. 60 h streaming)

up to 217 h

Intuis SP 4 | Fitting Range



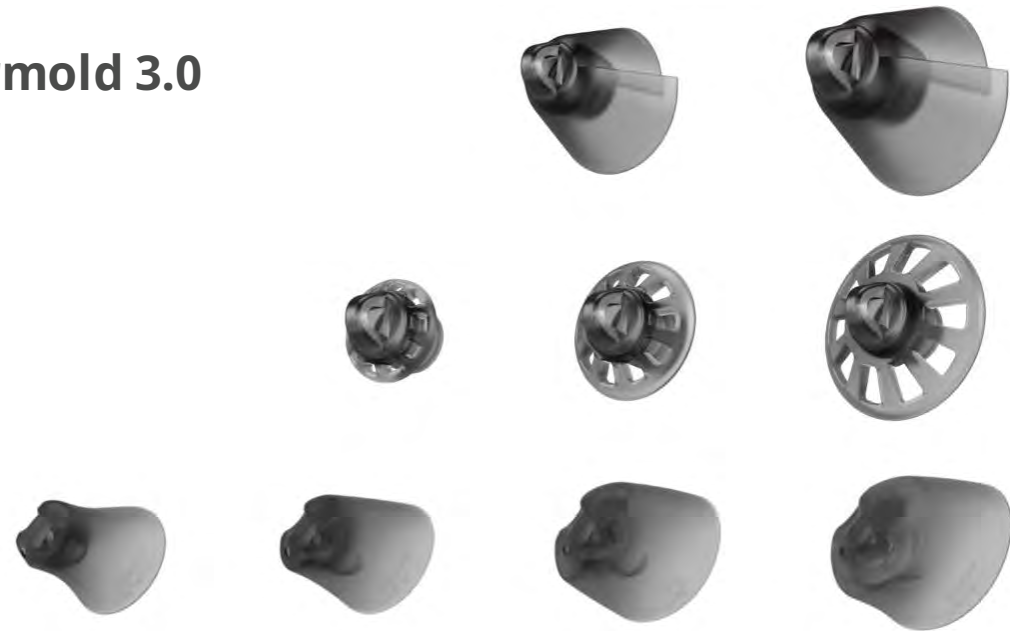
EarWear 3.0 compatibility

Intuis M 4 and Intuis P 4 are compatible with:

ThinTube 3.0

ThinTube 3.0 P

Both can be used with **Eartips 3.0, Sleeves 3.0, & Earmold 3.0**



Available in six attractive colors



Black



Graphite



**Dark
Champagne**



Silver Hero



Sandy Brown



Beige



Connectivity that empowers wearers

Signia Intuis 4 comes packed with features such as Bluetooth streaming for Android and iOS devices, and an integrated telecoil.



**Direct Bluetooth
streaming for iOS®
and Android™ (ASHA)**



Integrated telecoil



**Compatible with
StreamLine™ TV**

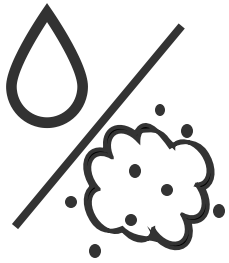


**Compatible with
StreamLine™ Mic**



Ready for any challenge

Intuis 4 is rated IP68 for water and dust resistance



Intuis 4 offers a range of tinnitus therapy options*



Intuis 4 is CROS compatible

Signia Intuis 4 is compatible with the CROS receivers below*



Signia CROS Pure
Charge&Go AX transmitter



Signia CROS Pure 312AX
transmitter



Wireless programming

Signia Intuis 4 is programmable with
Noahlink Wireless



Tamper-proof components for enhanced safety

Earhook

Secured with a pin that must be removed in order to unscrew earhook

Rocker switch

Cannot be removed without removing the hearing aid shell

Battery door

When desired, hearing care professionals can quickly and easily convert all Intuis 4 battery doors to be tamper-proof



Tamper-proof battery door conversion

Intuis M 4 and Intuis P 4 battery doors can be made tamper-proof by inserting an additional pin into the battery door.

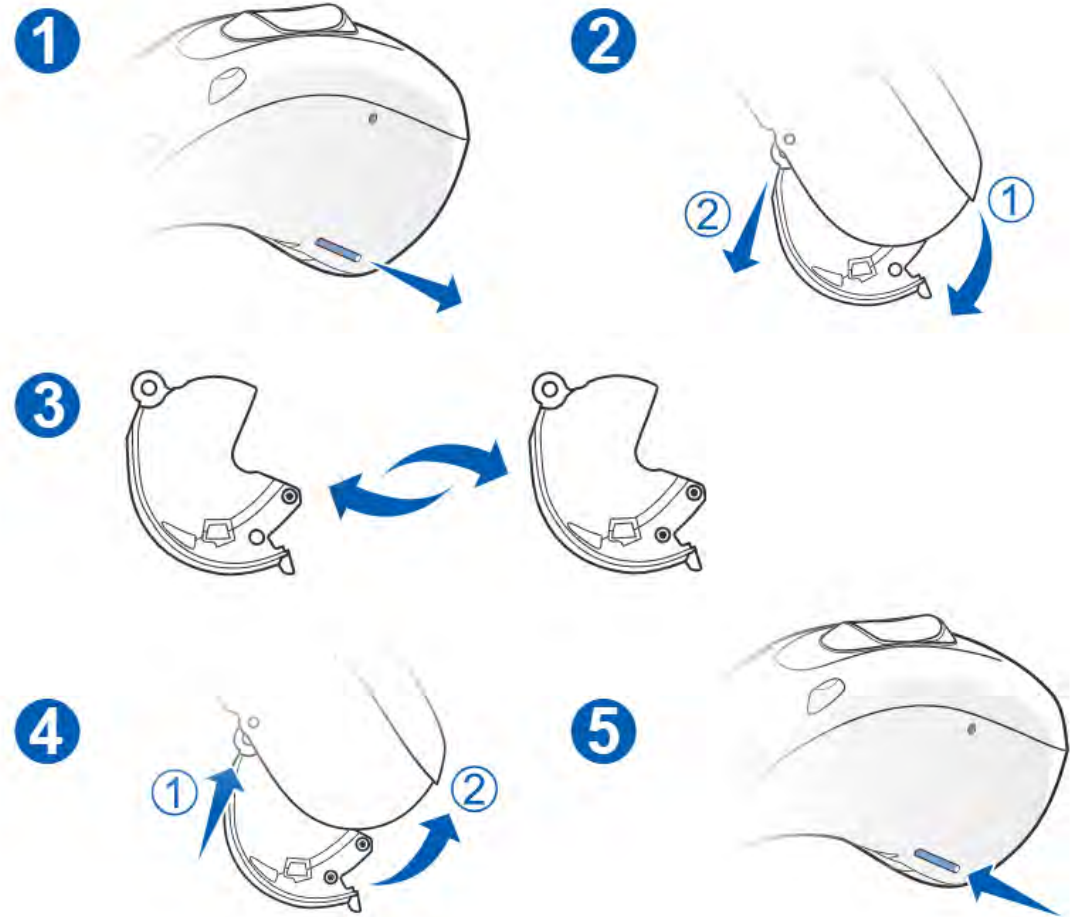
See next slide for video demonstration.



Tamper-proof battery door conversion

Intuis SP 4 standard battery doors can be easily removed and replaced with tamper-proof battery doors.

See next slide for video demonstration.



Opening tamper-proof battery doors

Turning off the hearing aid:

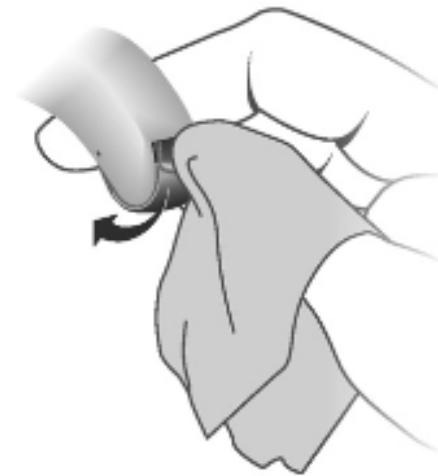
Tamper-proof battery doors can be easily opened a few millimeters to turn off the hearing aid.

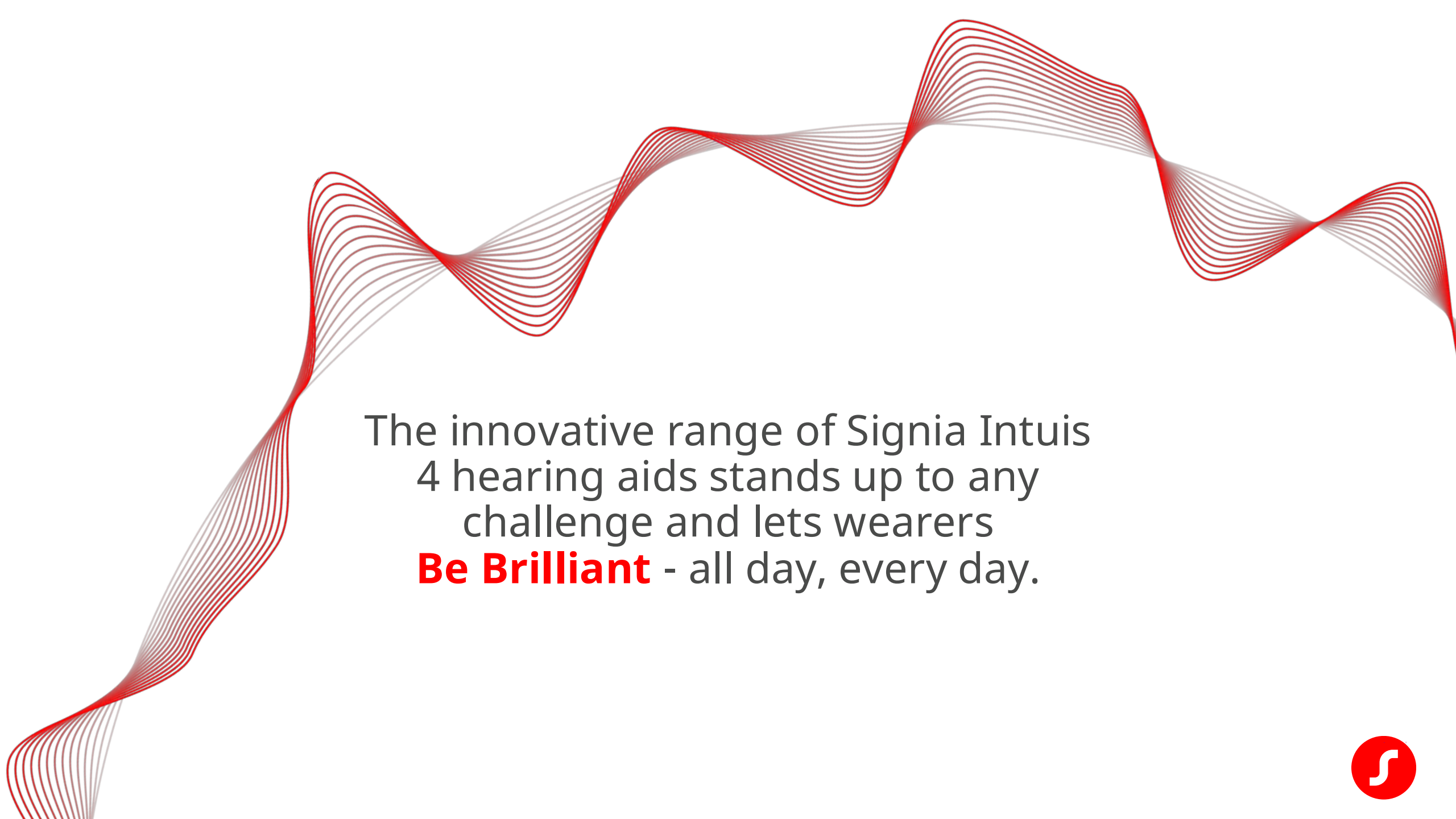
Changing the battery:

A higher force is required to fully open tamper-proof battery doors compared to the standard battery door.

For easier opening of tamper-proof battery doors:

1. Place a small cloth or tissue over the battery compartment grip.
2. Open the door with your thumb as shown in the illustration.



A series of thin, red, wavy lines that flow across the top and left side of the image, creating a sense of movement and rhythm.

The innovative range of Signia Intuis
4 hearing aids stands up to any
challenge and lets wearers
Be Brilliant - all day, every day.



Expanding Signia IX



Signia Integrated Xperience with RealTime Conversation Enhancement

A breakthrough approach to
address the long-standing
challenges faced by hearing
aid wearers



Built on Augmented Focus™ split processing

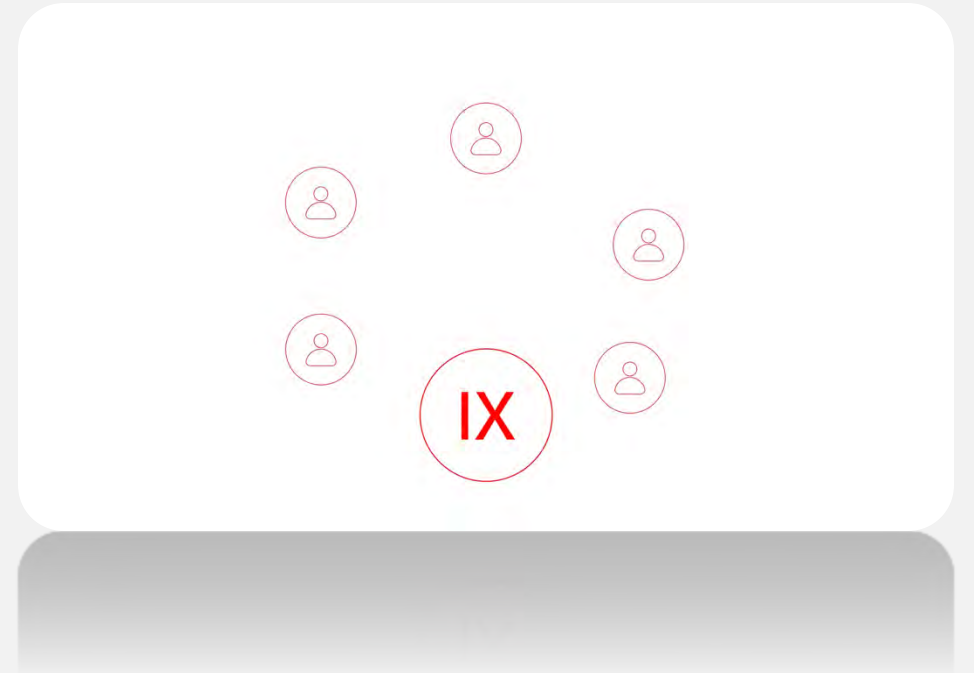


No compromise in how speech and ambient sound are processed



Signia IX with RealTime Conversation Enhancement

Revolutionary three stage process



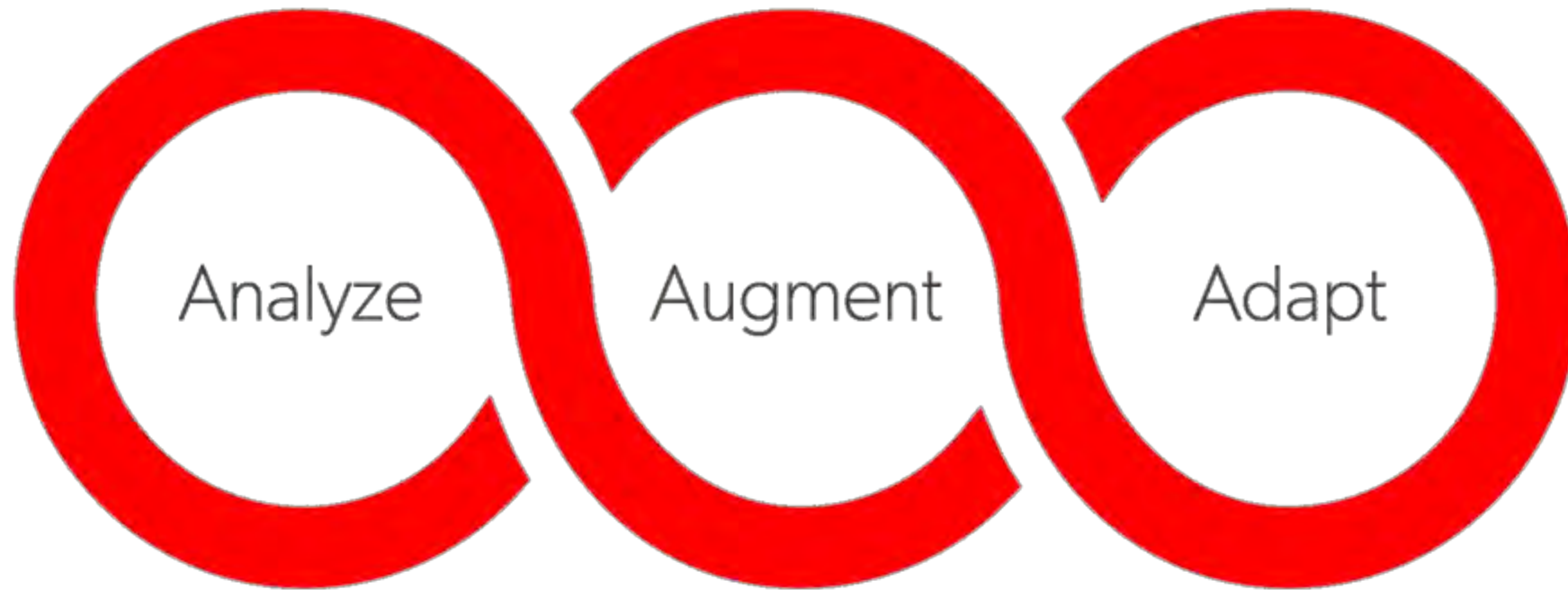
A live auditory space

Immersed in surrounding sound

Smoothly enhancing multiple speakers

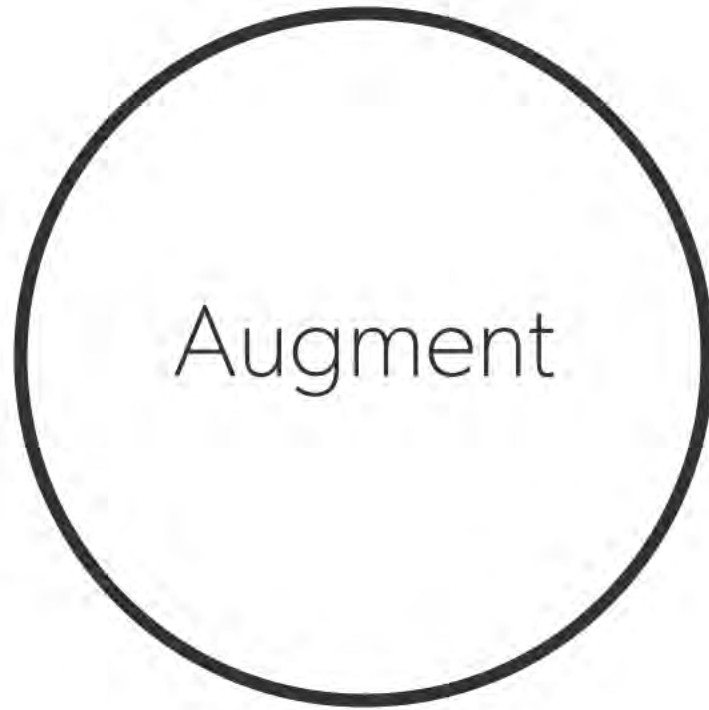


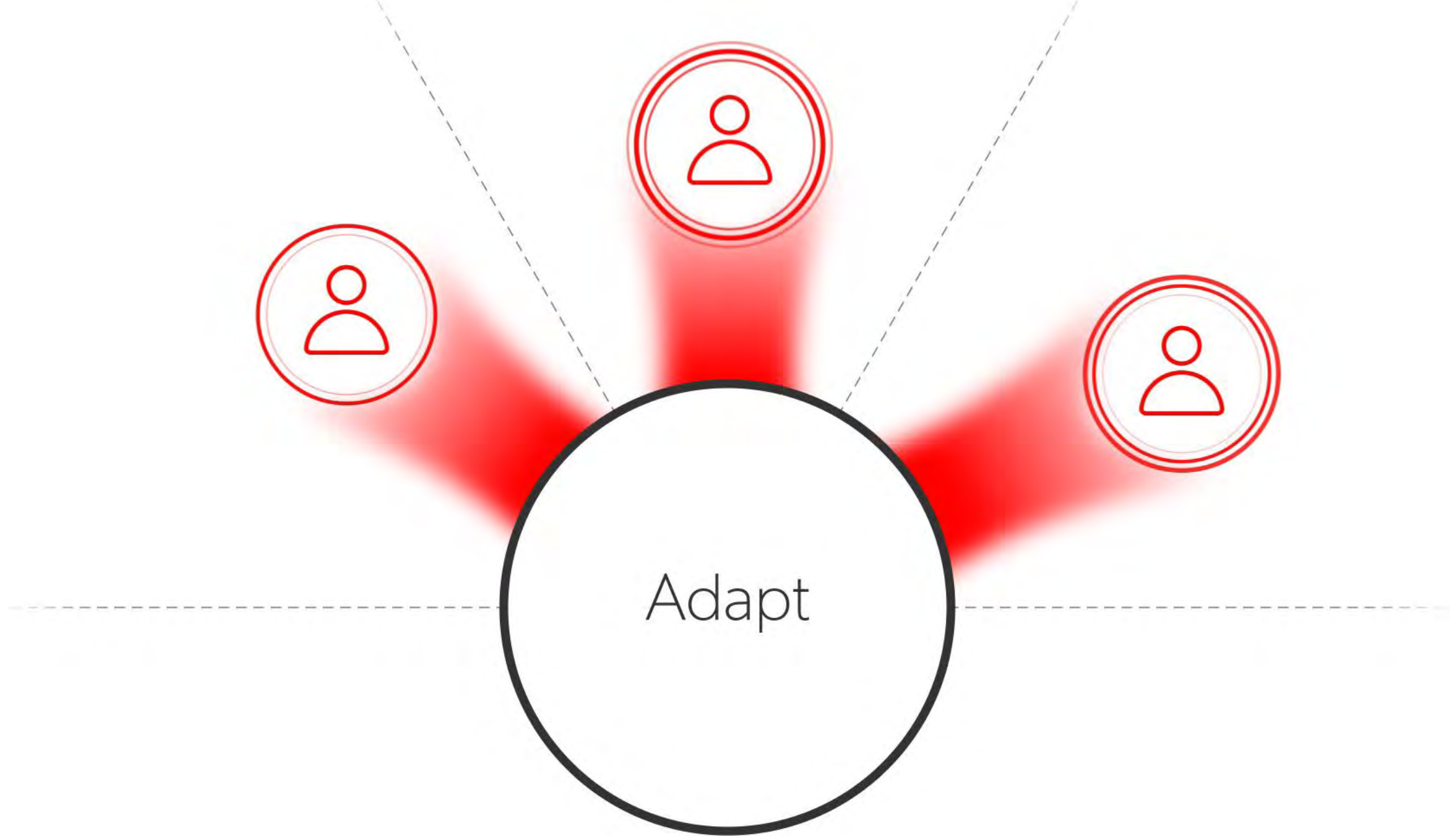
A revolutionary three stage process that puts conversation first











Introducing IX Essentials



Expanded IX portfolio - Essentials



Expanded IX portfolio - Essentials

Pure Charge&Go IX



Styletto IX



Silk Charge&Go IX



Insio IX



Integrated Xperience

Available in the full performance level range

- 7IX
- 5IX
- 3IX
- New 2IX
- New 1IX
- CROS



Styletto IX



Pure Charge&Go IX



Pure Charge&Go T IX



Silk Charge&Go IX



Insio IX IIC/CIC

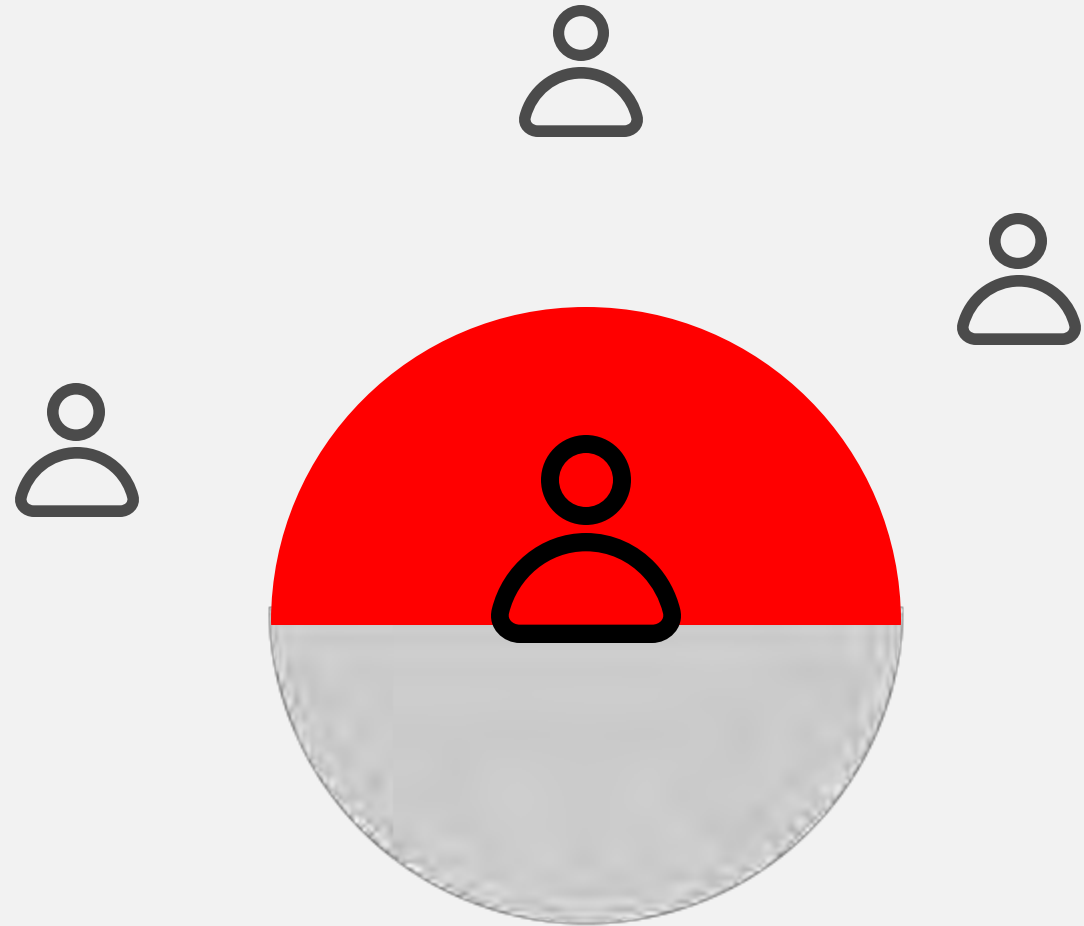


2IX and 1IX

Uses Split Processing to separate speech from noise at the input stage, then process the two signals separately, as completely separate tracks so that the speech signal and the ambient noise signal can each be optimized and adjusted completely independently.

Speech is not as precisely isolated, and non-relevant background sound is more prominent compared to the 3 level due to no RTCE.

However, Split Processing along with Speech Stabilizer delivers enhancement for conversation in challenging group conversations.



Speech stabilizer



- Clearer conversation in dynamic environments due to faster processing of IX
- Improves sound quality and clarity with the CROS IX
- Preserves the natural envelope of speech and acoustic cues in any situation, including very noisy environments



Available for all 2IX and 1IX



e2e Wireless 4.0
Augmented Focus (Split Processing)*
Dynamic Soundscape Processing 3.0
Speech Stabilizer
Speech & Noise Management
Automatic Directionality
TruEar 360
CROS compatibility



SoundSmoothing
eWindScreen
Extended Dynamic Range
Feedback Cancellation
Frequency Compression



4 hearing programs
miniPocket
Signia app
TeleCare
Signia Assistant*
MFi, ASHA, LE Audio*
Adaptive Streaming Volume*
HandsFree*
CallControl*
StreamLine Mic*
StreamLine TV*

*Only available for Pure C&G IX, Pure Charge&Go T IX, and Styletto IX



RIC feature comparison of 3IX - 2IX - 1IX

	3IX	2IX	1IX
Channels/Handles	32/16	24/12	16/8
Number of Programs	6	4	4
Real Time Conversation Enhancement	•		
Conversation Source Analyzer	•		
Conversation Booster	•		
Split Processing	•	•	•
Dynamic Soundscape Processing 3.0	•	•	•
Motion Sensors	•		
OVP 2.0	•		
Directionality	Binaural, Adaptive, Automatic	Adaptive, Automatic	Automatic
SoundSmoothing	•	•	on/off
Signia App	•	•	•
Signia Assistant	•	•	•
My WellBeing	•		
Tinnitus (Sound Therapy and Notch Therapy)	•	•	
Music Program	HD Music	HD Music	Music



CIC/IIC feature comparison of 3IX - 2IX - 1IX

Feature	3IX	2IX	1IX
Channels/Handles	32/16	24/12	16/8
Number of Programs	6	4	4
Dynamic Soundscape Processing 3.0	•	•	•
OneMic Directionality	•		
SoundSmoothing	•	•	on/off
Signia App	•	•	•
Tinnitus (Sound Therapy and Notch Therapy)	•	•	
Music Program	HD Music	HD Music	Music



Connexx 9.12

What's new:

- Enables fitting of Essential IX and Intuis 4
- Delivers firmware update to activate Bluetooth LE Audio capability in IX devices
- Introduces a TeleCare update to increase stability of remote sessions



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Bluetooth LE Audio Overview



What is Bluetooth LE Audio

- New Bluetooth Standard
- Operating on Bluetooth Low Energy radio
- Enables direct streaming (audio and data) from BLE enabled devices



Signia portfolio compatibility

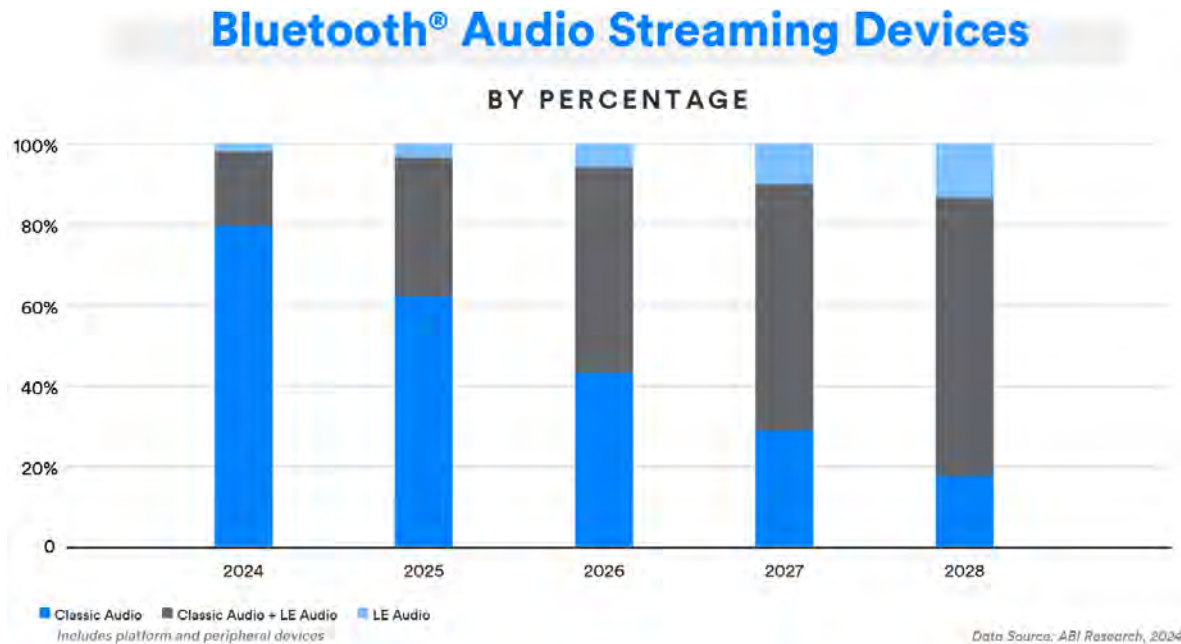
All Bluetooth-enabled Integrated Xperience Hearing Aids

- Pure Charge&Go IX / T IX
- Styletto IX



Integrated
Xperience

Bluetooth LE Audio is a NEW technology which will evolve over time



Forecast by Bluetooth SIG

([Bluetooth SIG 2024 Market Update](#), Section "Audio Streaming")

- Penetration of LE Audio will take time and is dependent of different markets and regions
- Alternatives continue to be MFi and Classic, ASHA is predicted to decline

Firmware update enables Bluetooth LE Audio functionality

HCPs will be prompted to allow a firmware update when connecting Bluetooth-enabled IX devices that had previously been fit in an earlier version of Connexx.

Benefits:

- Bluetooth LE Audio will enable hands-free calling with compatible Android devices
- Wearers will be ready for the future standard of hearing aid Bluetooth connectivity



Connectivity overview

Bluetooth connection via MFi (iOS devices) or via ASHA or LE Audio (Android devices)

Summary of functionalities enabled by each protocol

	MFi (iOS devices)	ASHA (Android devices)	LE Audio (Android devices)
Signia App (full functionality)	✓	✓	✓
Direct audio streaming	✓	✓	✓
HandsFree	✓	✗	✓
CallControl	✓	✗	✓

This information applies to Pure Charge&Go IX / T IX and Styletto IX



Improved stability of TeleCare remote sessions

Stability of Remote Session connections will be significantly improved by selecting a new, recommended option in the Remote Session workflow

➔ Hearing care professionals can now opt to conduct a full remote fine-tuning session without running an audio or video call directly through Connexx.

Instead, they can connect to their clients in their preferred way: via regular mobile phone call or via video calling app.

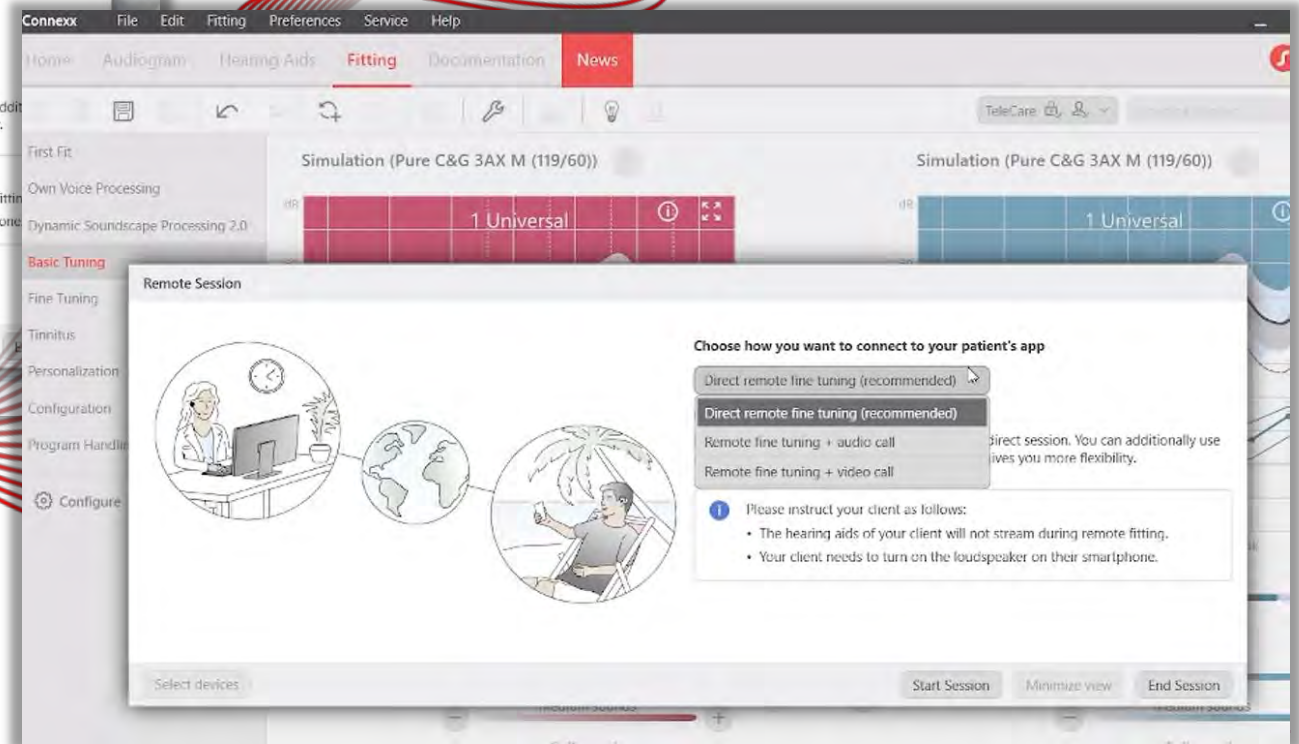
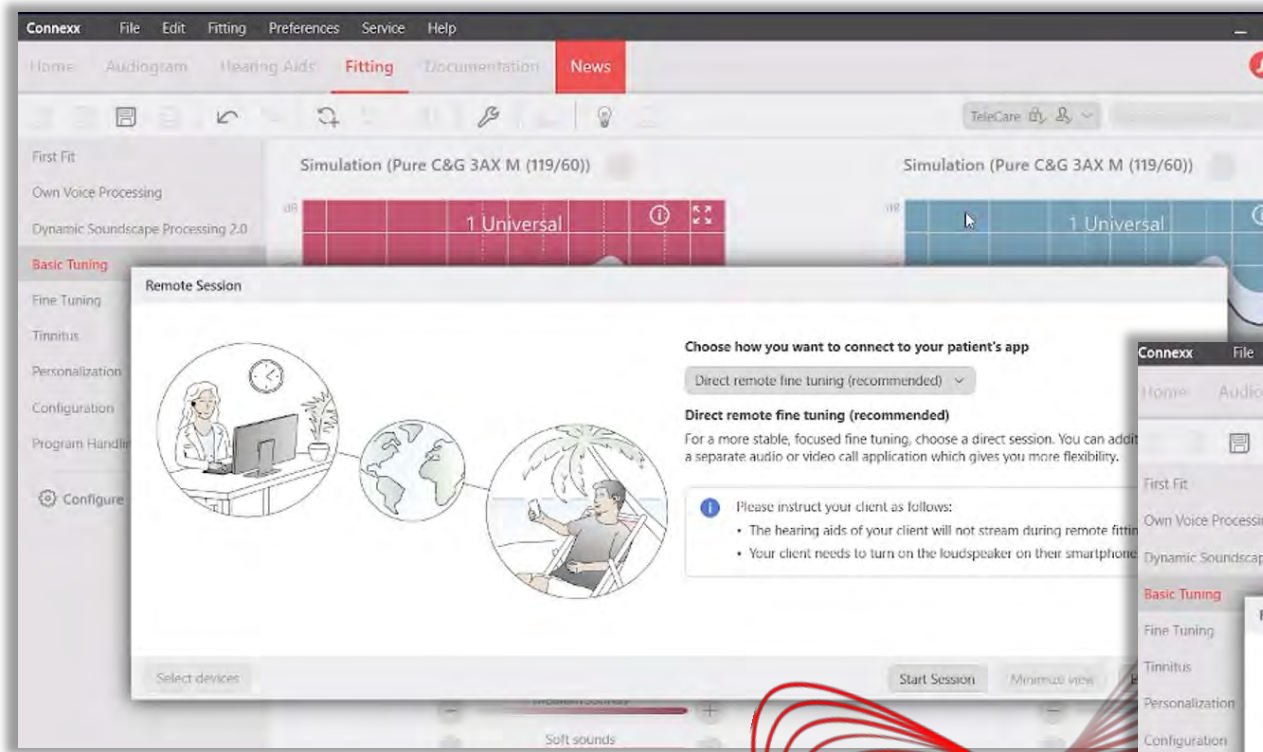
This new option is labeled as the recommended option in the Remote Session workflow.

Benefit:

- Selecting this new option will enable **improved stability of the remote fine-tuning connection with fewer failed connections.**
- This will enable more successful remote fine-tuning sessions and a better experience for HCPs and wearers.

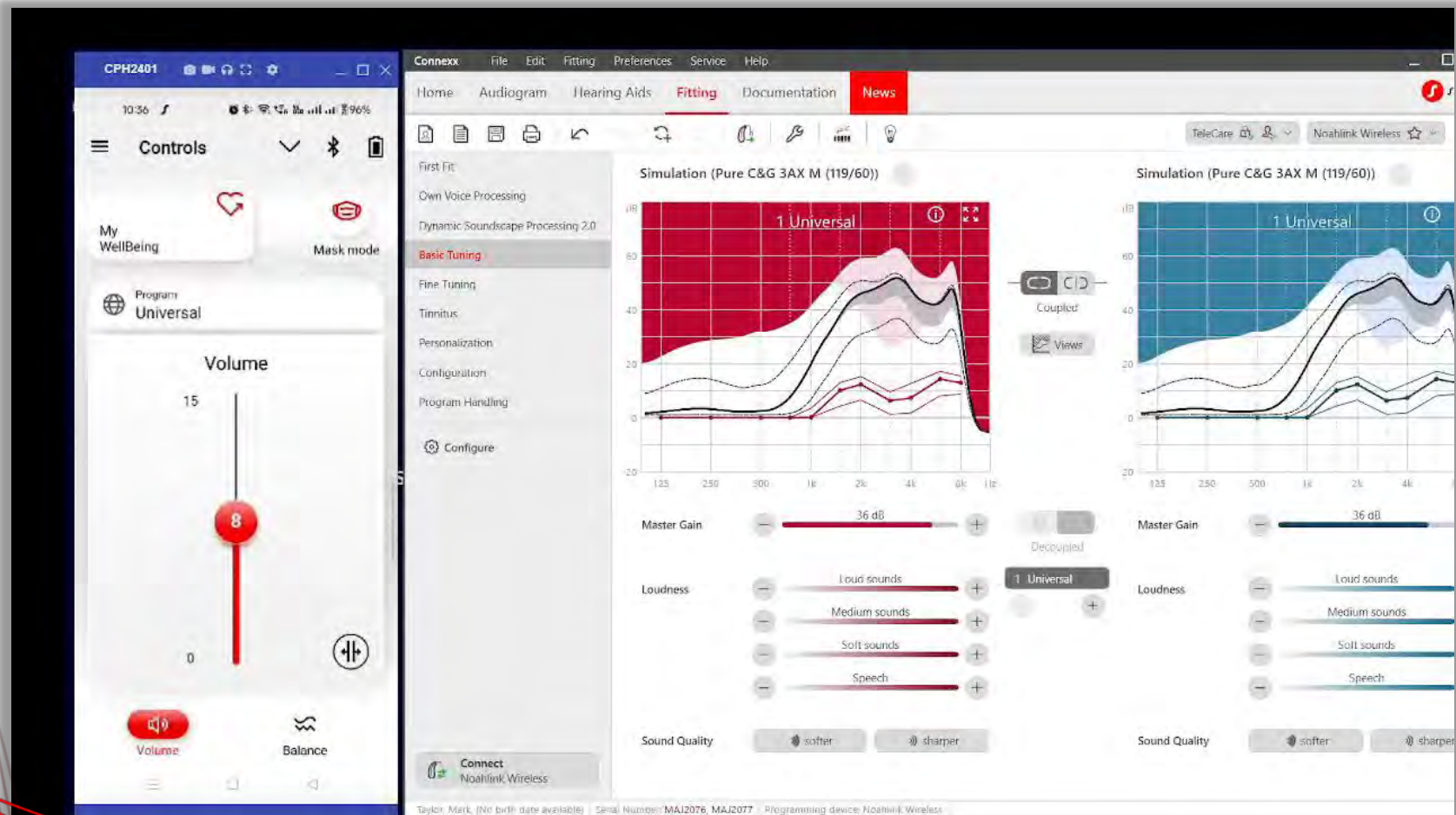


Improved stability of TeleCare remote sessions



Improved stability of TeleCare remote sessions

This brief screen recording shows the selection of the new option
Direct remote fine-tuning and connection of a remote session



Signia App 2.6.80

What's new:

Signia Assistant dialog has been updated to reflect increased emphasis on conversation situations

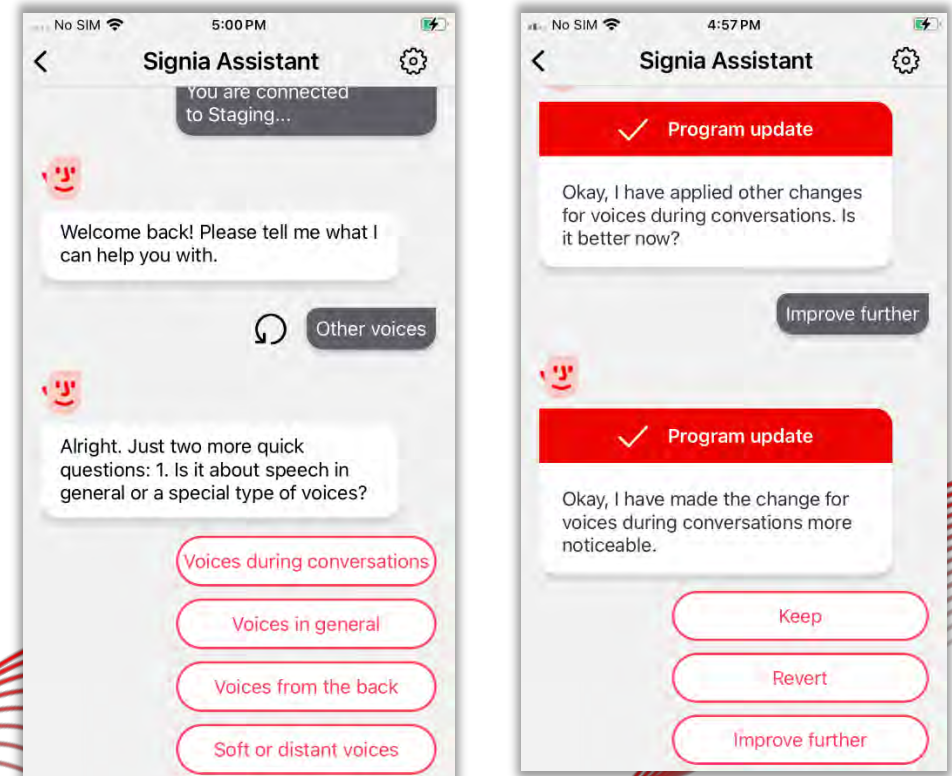


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Signia Assistant dialog update

In the Signia Assistant chat interface, the sound problem category "Loud voices" is now changed to "Voices during conversations."

- This update reinforces Signia's focus on conversation and the Integrated Xperience marketing narrative about the power of conversation
- Selecting this situation is likely to result in a DSP slider adjustment which increases the support from RealTime Conversation Enhancement.



A Foundation of Multi-Modal Research



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The Signia research network

Working to improve conversation is at the core of what we do:

- Multi-modal objective and subjective data with a holistic focus:
 - Physiological
 - Neural
 - Behavioral
- Hundreds of publications across multiple centers involving 1000's of participants



Our mission to unleash the power of conversation

We are on a journey to understand all aspects of real conversation and use this knowledge to create innovative hearing solutions that enrich the lives of our wearers



With our research..

We use a multi-modal approach
With test methodologies that reflect the real world



With our research..

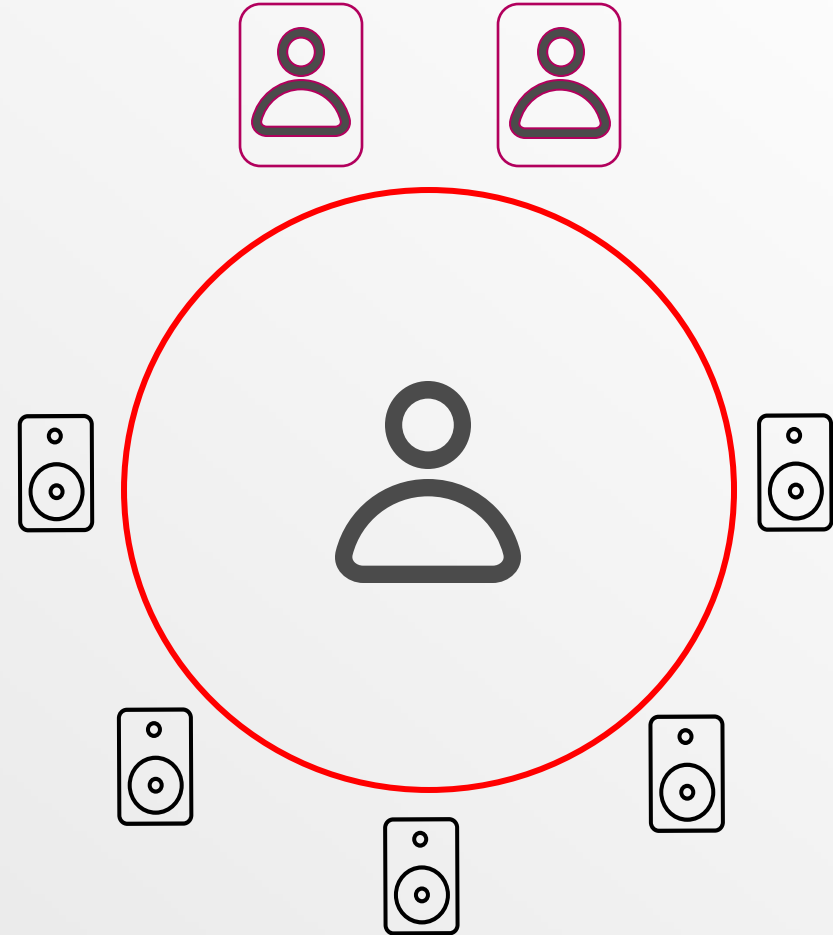
We have previously shown that RealTime Conversation Enhancement provides objective benefit in group conversation scenarios



95% of wearers had improved performance in a group conversation scenario^{*}

1

**Group conversation
scenario...not your typical lab
setup**

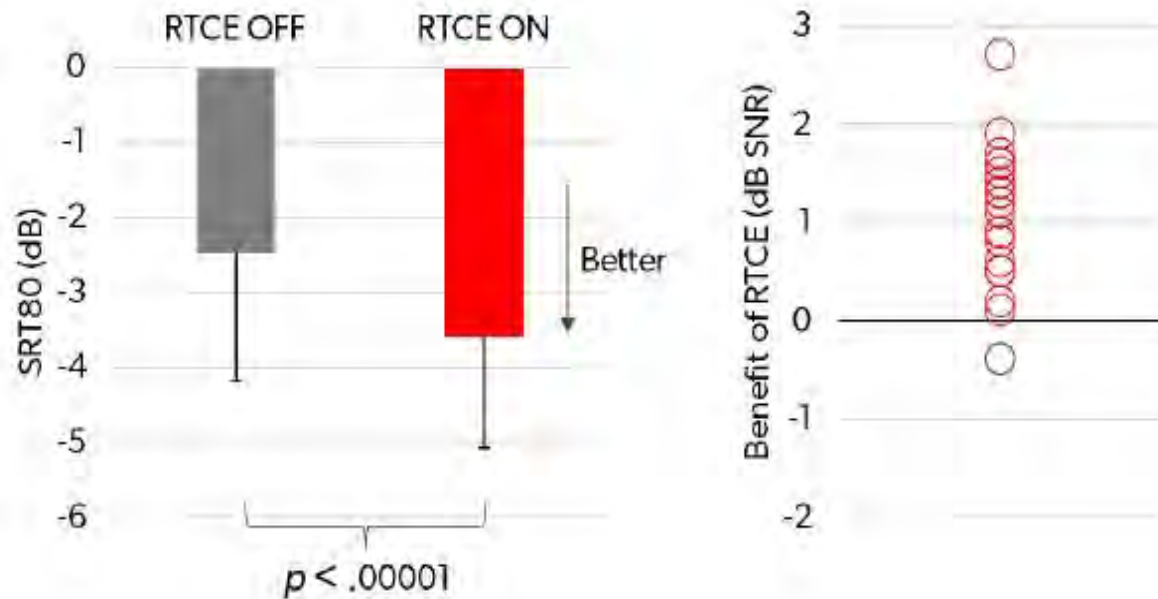


*Compared to RealTime Conversation Enhancement off

¹ Jensen NS, Wilson C, Kamkar Parsi H & Taylor B. 2023. Improving the signal-to-noise ratio in group conversations with Signia Integrated Xperience and RealTime Conversation Enhancement. Signia White Paper.

Visit for more details: <https://www.signia-pro.com/en-us/local/en-us/claims-data/>

Power the conversation with Signia Integrated Xperience and RealTime Conversation Enhancement



Results

- 1.1 dB average improvement for the speech-in-noise task when RTCE is on
- RTCE provides a substantial benefit in group conversation
- **95% of wearers had improved performance in a group conversation scenario compared to RealTime Conversation Enhancement off***

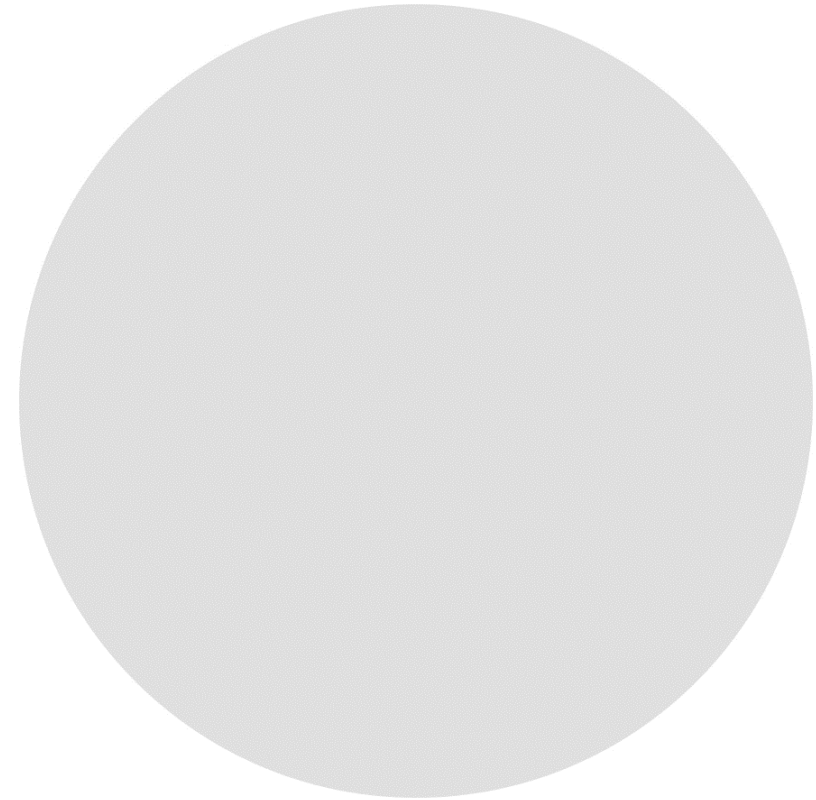
*Visit signia-pro.com/en-us/claims-data for more details



Integrated Xperience is an industry breakthrough

1

- Test conditions applicable to the real world
- Objective technical measurement recording the output of the hearing aids in a Kemar manikin



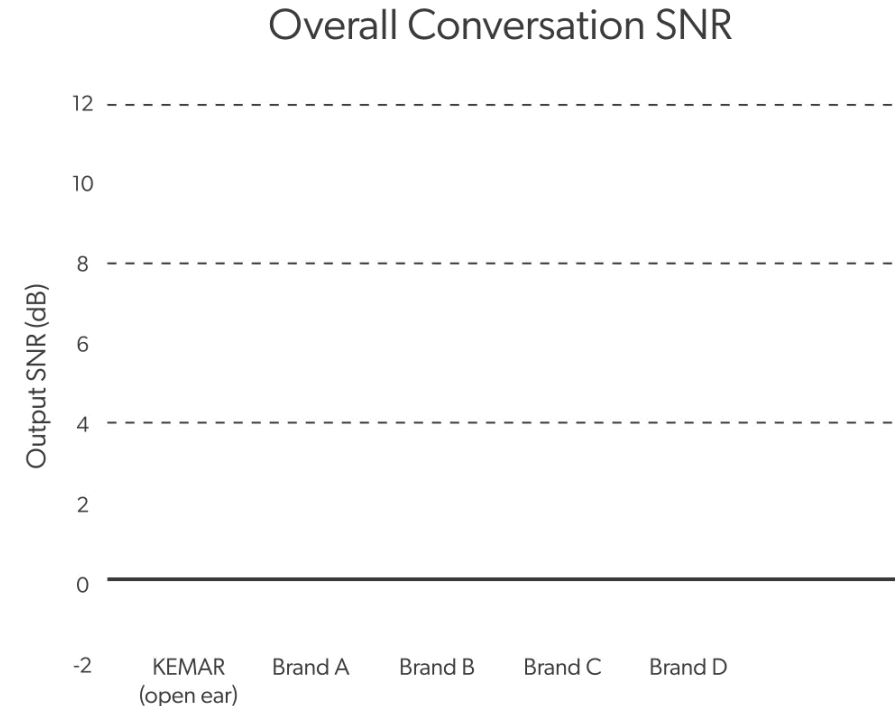
¹Jensen et al. (2023). Power the conversation with Signia Integrated Xperience and RealTime Conversation Enhancement. Visit for more details: <https://www.signia-pro.com/en-us/local/en-us/claims-data/>



Integrated Xperience is an industry breakthrough

1

- Test conditions applicable to the real world
- Objective technical measurement recording the output of the hearing aids in a Kemar manikin
- Shows a remarkable **4.1 dB SNR** improvement compared to the absolute best the competition had to offer



¹ Jensen et al. (2023). Power the conversation with Signia Integrated Xperience and RealTime Conversation Enhancement. Visit for more details: <https://www.signia-pro.com/en-us/local/en-us/claims-data/>



The research question

Do participants prefer RealTime Conversation Enhancement
in a real-world noisy group conversation scenario?



Assessing Signia IX in the Real-World

1



- University of Western Ontario, Canada
- Principal investigator: Dr. Susan Scollie



- N = 20 experienced hearing aid wearers
- Bilateral symmetrical sensorineural hearing loss
- 11 female, 9 male
- Mean age 73.6 years (range: 61-84 years)



- Signia Pure C&G 7IX, M-receiver and power domes
- IX First Fit, REM verification vs. NAL-NL2
- One program with RTCE activated (RTCE ON)
- One program with RTCE deactivated (RTCE OFF)
- All other features activated, incl. Augmented Focus



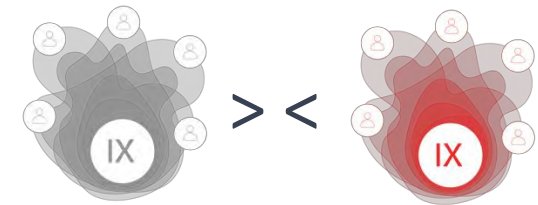
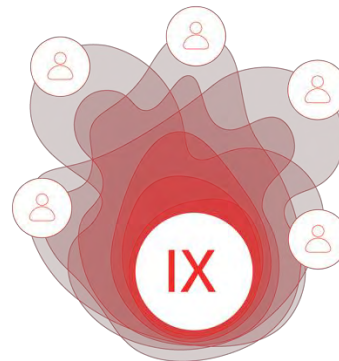
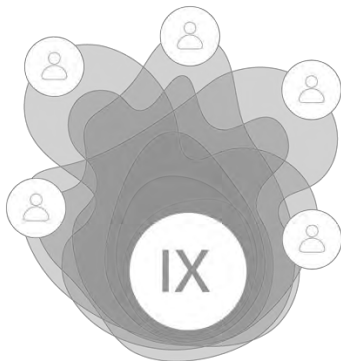
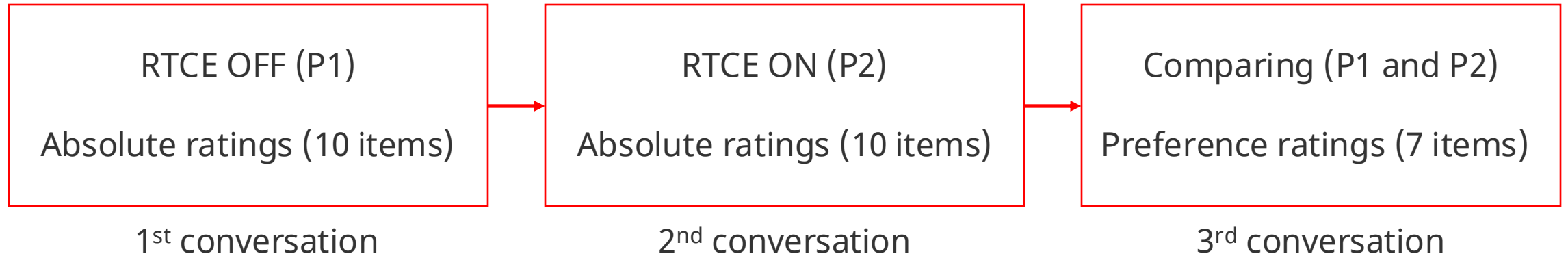
- Paper published at the American Journal of Audiology July 2024



Test environment



Test protocol



Preference ratings and item scales

Preference ratings (switching between programs)

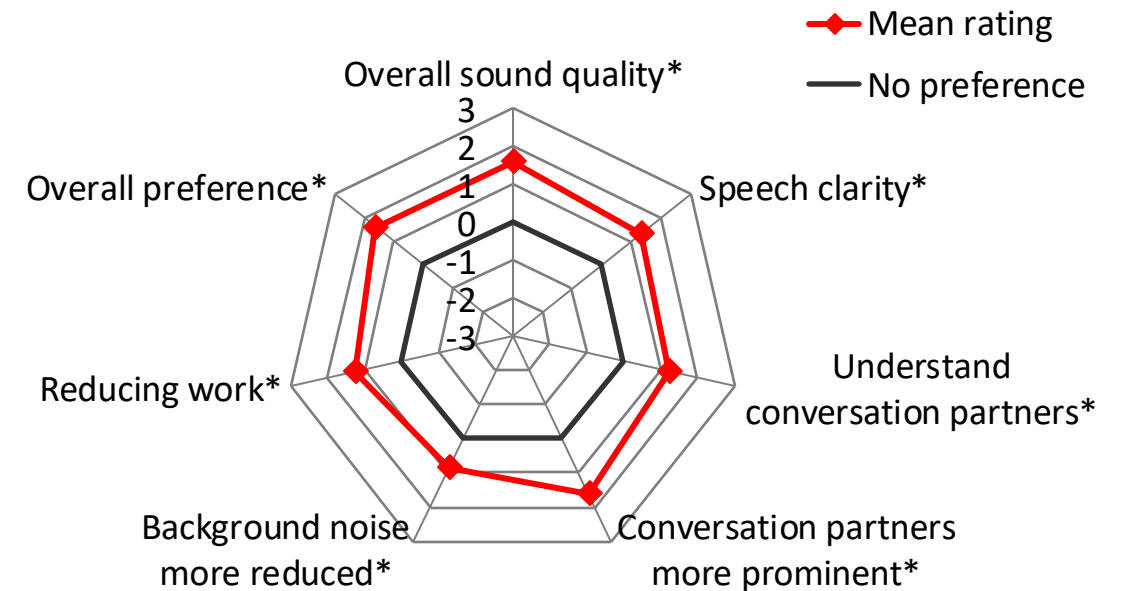
1. Which program do you prefer for overall sound quality?
2. Which program do you prefer for speech clarity?
3. Which program do you prefer for understanding both the male and the female conversation partners?
4. Which program do you prefer for making the conversation partners more prominent against the background noise?
5. Which program do you prefer for reducing background noise?
6. Which program do you prefer for reducing the work it takes to follow the conversation?
7. Which program do you prefer overall?

Strongly prefer P1	Prefer P1	Slightly prefer P1	No preference	Slightly prefer P2	Prefer P2	Strongly prefer P2
(-3)	(-2)	(-1)	(0)	(1)	(2)	(3)



Results – Average preference ratings of all participants

- Statistically significant preference for RTCE ON, in all parameters tested
- Overall strength of preference is strong
- 80% of all participants preferred RTCE ON
- 80% of all participants preferred the overall sound quality of RTCE
- Results strongly indicate speech is prominent and the sound quality is high and immersive



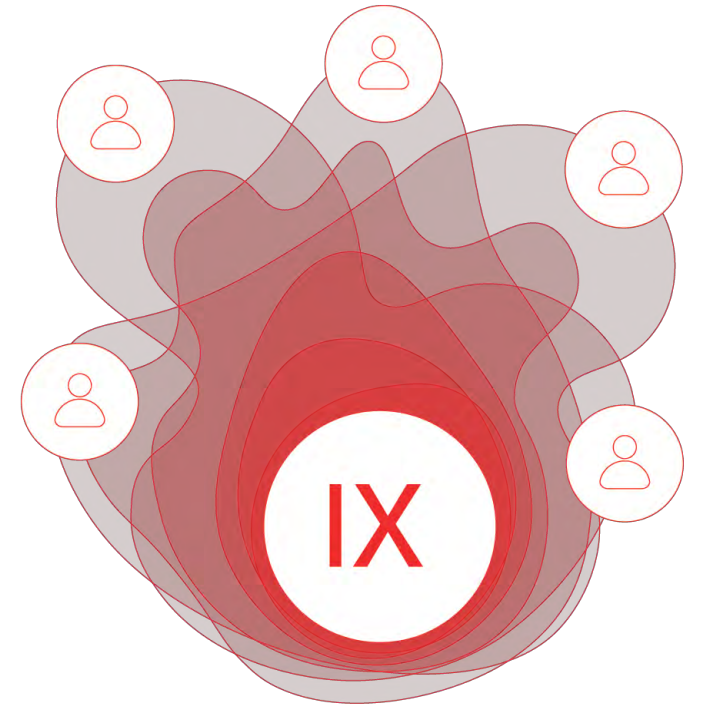
Strongly prefer RTCE OFF	Prefer RTCE OFF	Slightly prefer RTCE OFF	No preference	Slightly prefer RTCE ON	Prefer RTCE ON	Strongly prefer RTCE ON
(-3)	(-2)	(-1)	(0)	(1)	(2)	(3)

*Statistically significant effect

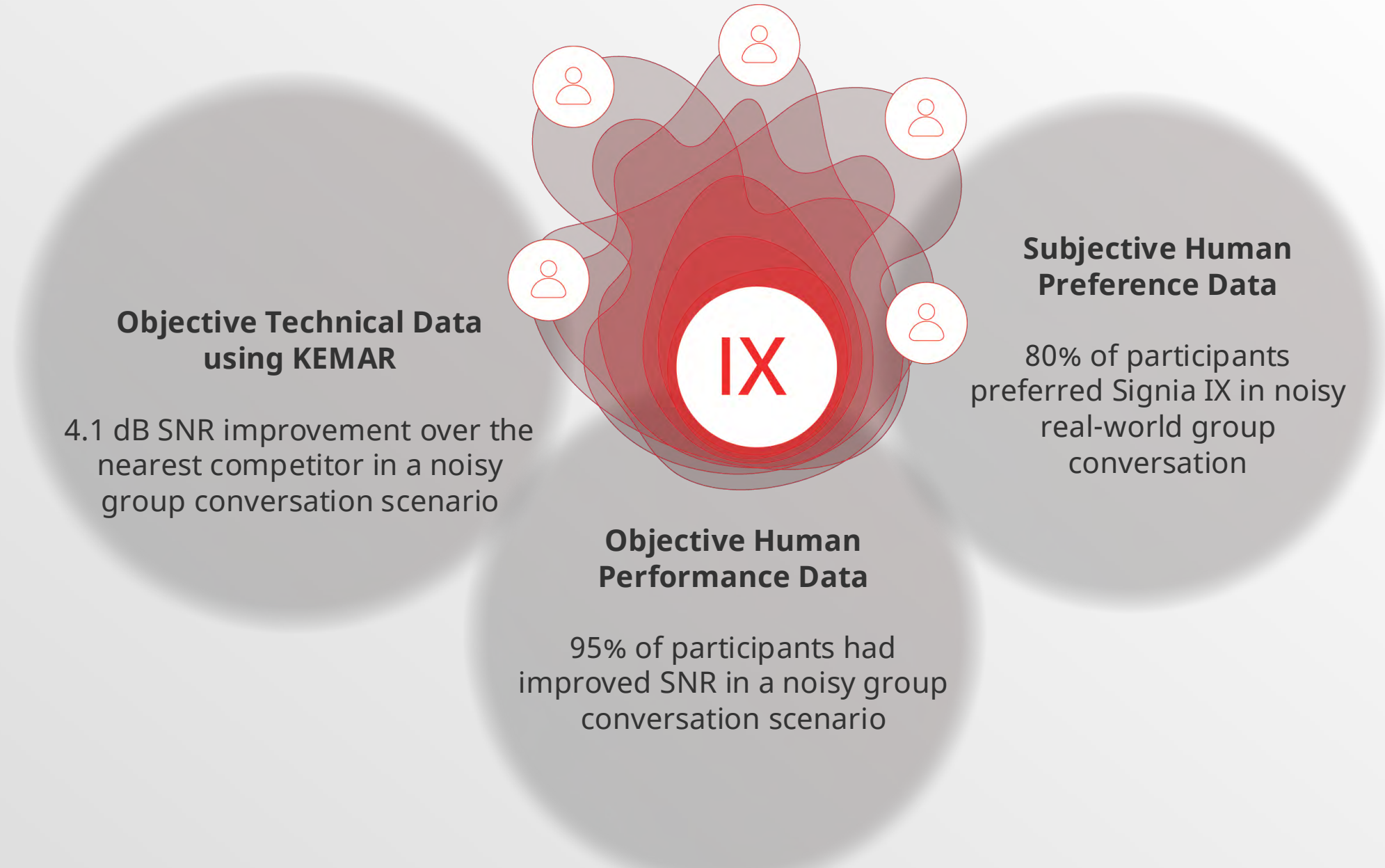


Study conclusions

- RealTime Conversation Enhancement was preferred on all investigated aspects of the group conversation experience
- 80% of participants had an overall preference for RealTime Conversation Enhancement
- The results are in line with the results from previous lab evaluations of Signia IX with RealTime Conversation Enhancement



Unleash the Power of Conversation with Signia IX





Signia is Winning
in Technology and
Service!



signia

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Signia Integrated Xperience platform awards



Signia wins BIG Excellence in Customer Service award!



This award win is a symbol of recognition for our customer service team's transformative journey into a center of excellence dedicated to providing exceptional support to our customers.

The Transformation of the Year category celebrates those who are:

- Transforming the customer experience in today's online-driven economy
- Developing the tools to help others find success
- Winning by supporting their own customers

Other Winners in This Prestigious Category



Expanding the Signia Portfolio



Pure
Charge&Go IX



Pure
Charge&Go T IX



CROS Pure
Charge&Go IX



Pure
312 AX



CROS Pure
312 AX



Styletto
IX



CROS Styletto
IX



Intuis 4



Silk
Charge&Go
IX



CROS Silk
Charge&Go
IX



Insio IIC/CIC
IX



Insio
Charge&Go
AX



Motion
Charge&Go
SP X



Motion
Charge&Go
P X



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Charge&Go
X



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