Signia Government Services: November 2026 Connexx 10 Fitting Software Tour

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Key Takeaways

Key Takeaway	Clinical Implication
Signia MaX is the newest platform	Signia MaX (Multi-Adaptive Xperience) is the most advanced Signia platform, and Connexx 10 was updated and enhanced to leverage its unique benefits.
Four DNNs, one Acoustic Intelligence	The Speech Detection, Own Voice Detection, Scene Analysis, and Noise Analysis DNNs work together as a cohesive unit under one Acoustic Intelligence.
System-level intelligence	Acoustic Intelligence is not feature-level intelligence; it controls every processing aspect in real time and reacts to changes in the environment in as little as 0.01 seconds.
Four key features, one coordinated response	RealTime Conversation Enhancement AI, Own Voice Processing AI, Ambient Scene Adaptation AI, and Dynamic Noise Control AI are always active and influence one another. If conversation is detected, it is always prioritized.
Own voice recognized out of the box	The Own Voice Detection DNN instantly recognizes the wearer's voice out of the box, and Own Voice Processing AI applies own voice comfort without compromising surrounding speech.
The Signia MaX chip makes always-on AI possible	Processing performance increased 54 times generation on generation, memory doubled, and efficiency improved by around 50 percent, so four DNNs can run simultaneously, all day.
Fit: streamlined first fit	Connexx 10 offers fewer clicks and fewer screens to first fit the hearing aids, which increases efficiency.
Fine-Tune: Acoustic Intelligence customization	Acoustic Intelligence customization was added to the Fine Tuning section to better leverage the power in MaX and support more personalized hearing.
Support: improved data insights	Data insights provide additional information on how the patient is wearing the hearing aids to enhance personalized care.

Course Content

Learner Outcomes

Upon completion of this course attendees will be able to:

- Discuss the capabilities and benefits of the newest Signia platform
- Identify key software enhancements that improve fitting efficiency
- Describe the utilization of advanced fitting and fine-tuning tools available only within Signia's newest platform

Introducing Connexx 10 and Signia MaX

Connexx 10 is updated and enhanced to empower audiologists to leverage the unique benefits of the Signia MaX platform for their patients.

Signia MaX, or Multi-Adaptive Xperience, is the most advanced Signia platform yet. It revolutionizes how hearing aids adapt to life's complexity and is powered by breakthrough technologies that redefine how sound personalizes every situation, so wearers can contribute confidently to conversation and Live Noisy.

Signia MaX introduces multi-dimensional AI system intelligence that understands the full moment. With Signia MaX, Acoustic Intelligence unites 4 DNNs to steer multi-stream sound processing in more precise and powerful ways, enhancing the entire acoustic scene. For more detail on MaX and Acoustic Intelligence, the presenter encourages attendees to take the Government Services Signia: Live Noisy course.

Four DNNs Controlled by One Acoustic Intelligence

The hearing aid response is steered using 4 DNNs that work together as a cohesive unit, much like a brain:

- Speech Detection DNN: detects external talkers in real time.
- Own Voice Detection DNN: instantly recognizes the wearer's voice out of the box.
- Scene Analysis DNN: continuously interprets the sound environment and recognizes changes.
- Noise Analysis DNN: identifies and understands the type of noise.

Acoustic Intelligence unifies and coordinates the 4 DNNs to understand the full acoustic environment with breakthrough precision. It is trained on 40 million samples across eleven languages, six music genres, and thousands of real voices and listening environments, making it one of the most diverse AI training bases ever applied to hearing aids.

It reacts to changes in the environment in just 0.01 seconds for instant, real-time adaptation to the entire soundscape. It is not feature-level intelligence; it is system-level intelligence controlling every processing aspect in real time.



Figure 1. Four DNNs work together, controlled by one Acoustic Intelligence.

Q5	**Quiz Hint:** Acoustic Intelligence unites and controls 4 DNNs (Speech Detection, Own Voice Detection, Scene Analysis, and Noise Analysis) to deliver system-level intelligence that controls every processing aspect in real time.

Acoustic Intelligence: One Coordinated Response

Acoustic Intelligence is the foundational shift behind Signia MaX and a new frontier in AI sound processing. It moves hearing aid AI from a single-dimensional response to multi-dimensional AI steering that continuously delivers the best possible output in any environment.

Soundscapes are not one-dimensional. Speech, competing talkers, the wider ambient scene and noise, and the wearer's own voice are all interacting at the same time. Acoustic Intelligence evaluates that entire sound landscape, processing over a billion bits of data per second and synchronizing adjustments across the signal pathway in real time, as one coordinated response in as little as 0.01 seconds.

Acoustic Intelligence controls and balances four core technologies on the Signia MaX platform. These are not independent modules; they are simultaneous outcomes of the same system, constantly balancing in relation to one another.



Figure 2. Acoustic Intelligence combines four DNNs into four key features.

The four key features:

- RealTime Conversation Enhancement AI: strengthens conversational enhancement more than ever before as dynamics shift and additional voices enter.
- Own Voice Processing AI: instantly recognizes the wearer's voice and seamlessly applies real-time own voice comfort without compromising surrounding speech.
- Ambient Scene Adaptation AI: continuously optimizes for the sound scene, taking into account reverberation, modulation, music, and movement, without fixed scenes or mode changes.
- Dynamic Noise Control AI: understands not just that noise is present, but what type of noise it is and whether the wearer is in conversation. This allows it to adjust the background intelligently, enhancing contrast when needed and preserving immersion when appropriate, rather than simply turning the world down.

These four technologies are always active and always influencing each other, and every adjustment is made in relation to every other adjustment:

- Conversation takes precedence and, if detected, is always prioritized.
- Own voice is made comfortable without affecting speech clarity.
- Background sound is reduced or maintained depending on conversational context.

The wearer does not hear four features; the wearer hears one coherent response.

Q4	**Quiz Hint:** The Own Voice Detection DNN instantly recognizes the wearer's voice out of the box, and Own Voice Processing AI seamlessly applies real-time own voice comfort without compromising surrounding speech.

The Signia MaX Chip

The new Signia MaX chip increases processing performance generation on generation by fifty-four times through higher clock speeds, two additional signal processing cores, and double the memory. That power provides the headroom to run four deep neural networks continuously, not in isolation and not sequentially, but at the same time across the entire sound processing pathway.

Alongside the fifty-four-times performance leap, efficiency improved by around fifty percent, which allows the four DNNs to run simultaneously across the pathway, all day and always on. Signia designs and builds its chips in house, so it is not forced into trade-offs between power and battery life. The whole system is engineered as one holistic platform, with performance, size, energy consumption, and user experience working together.

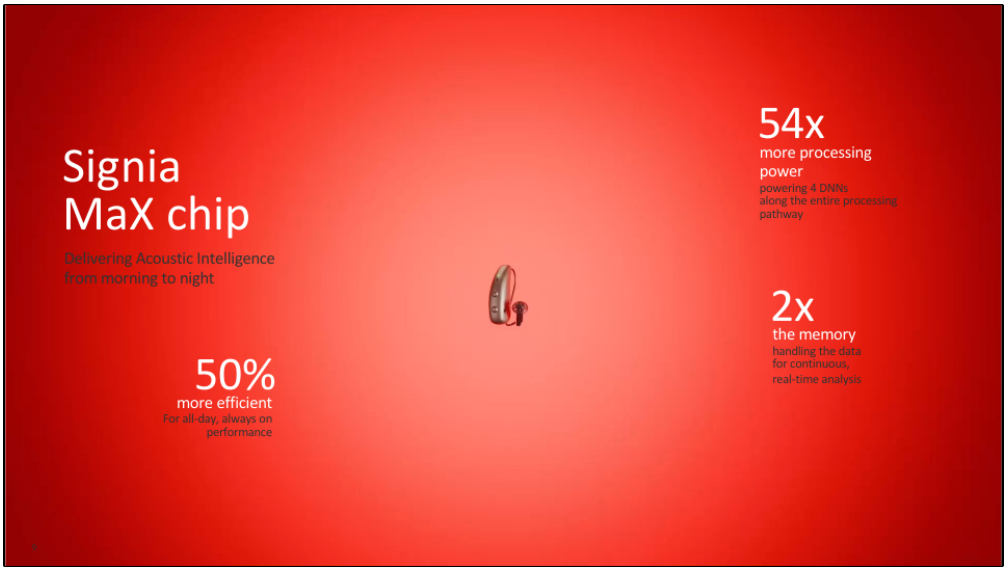


Figure 3. The Signia MaX chip: 54x processing power, 2x memory, and 50% greater efficiency.

From One-Dimensional AI to Multi-Dimensional AI

Traditional one-dimensional AI hearing aids mainly ask, “How much shall I reduce the noise?” and “How much shall I close off?” Multi-dimensional Acoustic Intelligence asks, “How can I provide the optimum settings to get the most out of the moment?” The goal is to get the most out of every moment, contribute confidently, and Live Noisy.

Connexx 10 Fitting Software

The newest version of Connexx 10 software was released November 1, 2026. Three key enhancements improve the audiologist and wearer experience:

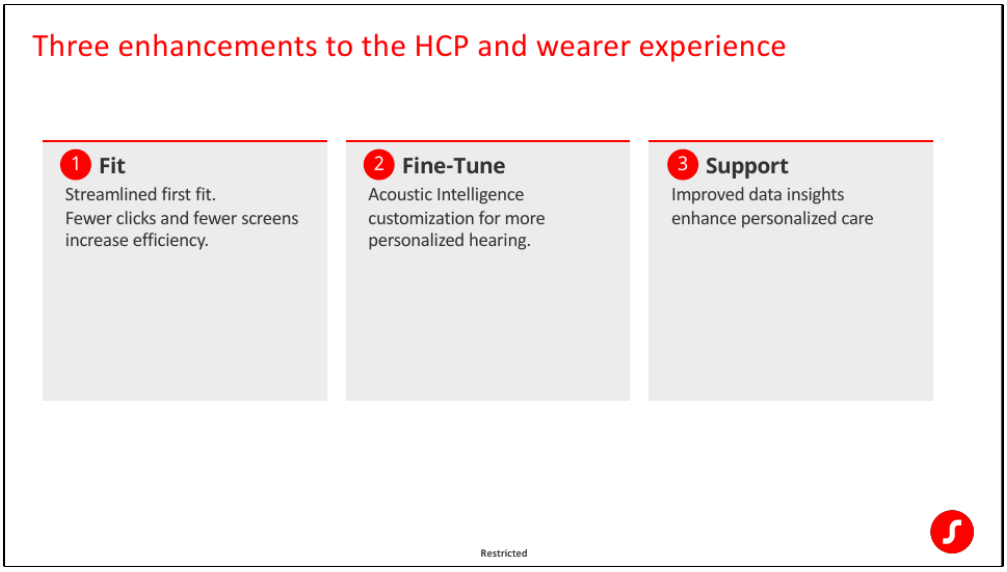


Figure 4. Three Connexx 10 enhancements: Fit, Fine-Tune, and Support.

- Fit: a streamlined first fit screen, with fewer clicks and fewer screens, to first fit the hearing aids.
- Fine-Tune: Acoustic Intelligence customization added to the Fine Tuning section to better leverage the power in MaX.
- Support: improved data insights that enhance personalized care by providing additional information on how the patient is wearing the hearing aids.

Q1	**Quiz Hint:** Connexx 10 provides a streamlined first fit screen, with fewer clicks and fewer screens to first fit the hearing aids, which increases efficiency.

Q2	**Quiz Hint:** The three Connexx 10 enhancements are Fit (a streamlined first fit), Fine-Tune (Acoustic Intelligence customization added to the Fine Tuning section), and Support (improved data insights that enhance personalized care).

Q3	**Quiz Hint:** Acoustic Intelligence customization was added to the Fine Tuning section to better leverage the power in MaX, and it is built around four key features: RealTime Conversation Enhancement AI, Own Voice Processing AI, Ambient Scene Adaptation AI, and Dynamic Noise Control AI.

Conclusion

- Signia MaX uses Acoustic Intelligence, which unites and controls 4 DNNs, to deliver one coordinated, system-level response to the full acoustic scene.
- The Signia MaX chip provides the processing power and efficiency for Acoustic Intelligence to run all day, all the time.
- Connexx 10 enhances the audiologist and wearer experience through a streamlined first fit, Acoustic Intelligence customization in Fine Tuning, and improved data insights.

Notes

Quiz Summary

The following quiz hints appeared throughout the course content. Use this section as a quick study reference.

Q1	**Quiz Hint:** Connexx 10 provides a streamlined first fit screen, with fewer clicks and fewer screens to first fit the hearing aids, which increases efficiency.
Q2	**Quiz Hint:** The three Connexx 10 enhancements are Fit (a streamlined first fit), Fine-Tune (Acoustic Intelligence customization added to the Fine Tuning section), and Support (improved data insights that enhance personalized care).
Q3	**Quiz Hint:** Acoustic Intelligence customization was added to the Fine Tuning section to better leverage the power in MaX, and it is built around four key features: RealTime Conversation Enhancement AI, Own Voice Processing AI, Ambient Scene Adaptation AI, and Dynamic Noise Control AI.
Q4	**Quiz Hint:** The Own Voice Detection DNN instantly recognizes the wearer's voice out of the box, and Own Voice Processing AI seamlessly applies real-time own voice comfort without compromising surrounding speech.
Q5	**Quiz Hint:** Acoustic Intelligence unites and controls 4 DNNs (Speech Detection, Own Voice Detection, Scene Analysis, and Noise Analysis) to deliver system-level intelligence that controls every processing aspect in real time.

Additional Information

Presenter Bio

Dr. Turriff is the government audiologist for the Mountain and West territories for Signia. She has over nine years of hearing aid manufacturing experience, all with WS Audiology. This experience includes sales, product and software education, and presenting at regional and national conferences. Her five years of clinical experience were completed at large ENT practices in both Minnesota and Washington State. She has been an active volunteer with the American Academy of Audiology, serving on several committees over the past nine years. She earned her undergraduate degree at Lawrence University in Wisconsin and her doctorate at the University of North Texas.

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Presenter Disclosure

Financial: Caitlin Turriff is employed by Signia.

Non-financial: Caitlin Turriff has no relevant non-financial relationships to disclose.

Additional Information (continued)

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