Frequently asked questions:

REMfit™ with IMC 2 in Oasisnxt

Please note that the answers below apply to REMfit™ when used specifically with IMC 2 compliant REM modules such as Interacoustics, MedRx, Sivantos, Auditdata or Otometrics. They do not apply when used with Audioscan systems.

Before starting REMfit™ with IMC 2

What is IMC 2?	IMC 2 (Inter Module Communication protocol 2) is a HIMSA communication protocol that allows Noah modules to communicate with each other.
What measurement modules are IMC 2 compliant?	See www.himsa.com for the most up-to-date information.
What version of the REM module do I need?	It is recommended to use the latest IMC 2 compliant version. See www.himsa.com.
What version of Noah do I need?	The minimum Noah version required for IMC 2 to work is 4.5.1. It is recommended to always use the latest Noah version for which the compatibility with Oasisnxt has been approved.
Can REMfit™ work without Noah?	REMfit™ can function without Noah but with Oasisnxt stand-alone, when used with an IMC 2 compliant module.
Will it work on legacy Oasis?	REMfit™ in Oasis 26.2 and earlier does not support speech mapping. Oasis REMfit™ supports a limited number of REM devices: Interacoustics Affinity and Callisto and all MedRx Avant REM systems.
How do I set up REMfit™?	Ensure you have installed an IMC 2 compliant REM module. If just one compliant REM module is installed, then you are ready to use REMfit™. If there is more than one, you will be asked which module to use upon entering REMfit™ for the first time. To check which REM module is selected or to make changes, go to Tools > Preferences > REMfit™ > Measurement Module. Select the REM module you wish to use with REMfit™. Ensure the REM system itself is connected and switched on. You do not need to start the REM software.

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How do I set the maximum SPL?	Go to **Tools > Preferences > REMfit™ > Measurement Module > Maximum SPL**. Note that not all REM modules support the setting of Max SPL over IMC 2 yet. You will always be able to set the maximum SPL in **Preferences** but Oasis^{nxt} will not know if it is supported by the REM module until REMfit™ itself is started. If the REM module does not support Maximum SPL over IMC 2, you will be informed when performing the aided manual measurement.
How do I switch between insertion gain and speech mapping?	REMfit™ uses insertion gain by default so as not to disrupt those who already used the tool before 2019.2 when it only offered insertion gain. To change to speech mapping, go to **Tools > Preferences > REMfit™ > Measurement protocol**.
Which REM modules support speech mapping over IMC 2?	REMfit™ can access the Aided Response LTASS measurements from any IMC 2 compliant REM module. Some REM systems do not yet support percentiles, speech intelligibility index (SII) or MPO measurement over IMC 2 (see the compatibility overview section at the end of this document), in which case these measurements will simply not be displayed. However, they will start being displayed in REMfit™ if the REM manufacturers introduce support for them over IMC 2 in the future. Make sure you have always updated your REM software in order to benefit from new functionalities.
How important is it to use appropriate acoustics?	As for all fittings, it is strongly recommended to **physically** fit acoustics that are appropriate to the hearing loss as it will influence the amplification and the feedback system. This is particularly apparent when verifying. Select the acoustic options in the **Acoustics** drop-down menu in Oasis^{nxt}.

During REMfit™ with IMC 2

The RIGHT/BOTH/LEFT buttons are grayed out. How do I enable them?	Make sure that the hearing aids are connected, the REM system/module is connected and switched on. Make sure the REM software is up to date and IMC 2 compliant – see **www.himsa.com** for the latest list of compliant modules. Also ensure that the REM software is selected in **Tools > Preferences > REMfit™ > Measurement Module**.
What hearing aid program is used when running REMfit™?	P1 is used, no matter what program you have selected when starting REMfit™.
What happens to the automatic gain adaptation during REMfit™?	It is automatically set to 100% adaptation to ensure the best match to the fitting target.

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Do I have to reset the automatic gain adaptation if it was on 80% before performing REMfit™?

No, after having performed REMfit™ the automatic gain adaptation will automatically go back to 80%.

Are the REM settings automatically applied when using REMfit™?

No, the REM settings in Tools are designed for use when doing conventional real ear measurements. REMfit™ uses its own fixed settings which are intended to reflect normal, everyday use. Settings during REMfit™ are as follows:

Adaptation Manager	100%
Dynamic Noise Reduction	default setting medium
Adaptive Feedback Canceller	On
Directionality	Fixed Omni
Frequency Composition^{nxt}	Off

Can I verify the target match when BernaFit NL or BernaFit Comfort rationales are chosen in Client data?

Yes, this is possible. If you have selected BernaFit NL or BernaFit Comfort as the rationale, then REMfit™ will display and match BernaFit NL or BernaFit Comfort targets.

How important is the probe tube placement?

It is important for accurate measurements and therefore accurate adjustments. To achieve this accuracy, the end of the probe tube should be within 5 mm of the tympanic membrane and the probe tube must extend at least 5 mm beyond the sound outlet.

How can I ensure good probe tube placement?

Set the marker on the tube to the required depth and perform otoscopic examination of the ear canal to ensure good probe tube placement. It is also possible to use the unaided measurement to verify good placement of the probe tube. Ensure that the unaided gain at 6 kHz intersects the x-axis at approximately 0 dB (+/- 5), if possible. If it does not, reposition the probe tube.

What if there is a blockage or pinched tube?

During the automatic sequence, the system analyzes the measurement to detect signs that the tube is blocked or pinched. If it determines that there is a blockage of some sort, you will be presented with a window prompting you to check the tube and allowing you to either cancel the automatic adjustment sequence (recommended) or continue if you wish.

Why is there no REOR?

The workflow in REMfit™ is designed to be as efficient as possible. REOR is not part of the target calculation and is therefore, not essential. If you wish to do REOR, it is possible to run an occluded measurement using the REM module before starting REMfit™.

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Do I need to mute the hearing aids for open fit equalization?	No. At the start of an automatic sequence of measurements, the instruments will mute automatically prior to the sound field calibration burst and will unmute when the calibration is complete. This is known as stored equalization and is suitable for both open and closed fittings, but it is important that your client remains still during each measurement.
How do I set it to only run one level every time I use the tool?	Go to Tools > Preferences > REMfit™ > Additional input levels. Deselect "Soft" and "Loud".
What are the automatic adjustments based on?	The aided automatic sequence consists of an initial measurement, an automatic adjustment applied to all levels and a verification measurement. The measurements are only made at the selected levels. The adjustment required is calculated based on the 65 dB measurement and is applied equally at all levels although within the physical limits of the hearing aids.
If the adjustments are only based on 65 dB, what determines the fit to target at soft and loud levels?	The adjustment is applied equally to all levels, thus preserving the relationships between the 65 dB and the loud/soft measurements, which are based on the compression ratios of the rationale selected in Oasis^{nxt} 2019.2.
Can I skip the automatic part and just do manual adjustments and measurements?	Yes, it is possible that you proceed directly from the calibration to the aided manual measurement.
Why were only half of the measurements that I expected run when performing the automatic sequence?	If you use speech mapping and repeat the automatic aided sequence or if you run the automatic aided sequence after an aided manual measurement, this is what happens. The reason is that nothing has changed in the settings since the most recent measurement, so it can replace the initial measurement with the most recent verification measurement, thereby saving time.
How fast can REMfit™ match targets?	REMfit™'s automatic target matching sequence for a binaural fitting at all 3 input levels (50, 65, and 80 dB) takes less than two minutes (this was tested using an Interacoustics Affinity and does not include the time taken to position the REM probes in the ear canals).
How do I perform an MPO measurement?	In the Aided manual tab. It is listed next to the measurement input levels. It is recommended to run this separately from other levels so you can instruct the patient and prepare them for the loud signal. Note that not all REM systems support running MPO from an IMC 2 communication.
How do I compare the finished measurements to the initial measurements?	After an aided automatic sequence, it is possible to display the initial measurement by changing the graph view between the right and left side.

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Why are the percentiles (also known as verified speech envelope, or verified speech 'banana') not shown at the end of measurements?	Percentile ranges are displayed live for each level during measurement but are not automatically shown at the end of the measurements. This is to avoid confusion, and overlapping displays when multiple levels have been measured. However, the display of percentile ranges can be selected in the graph between the right and left side. You can select separate input levels to clearly view percentiles.
What should I do if the audiogram is an ABR in eHL?	Ensure you have made the appropriate selections in the Client, Audiogram menu in Oasis^{nxt}.
What should I do if the audiogram is an ABR in nHL?	Ensure you have made the appropriate selections in the Client, Audiogram menu in Oasis^{nxt}. When nHL is selected, it will use the ABR equipment corrections in Oasis^{nxt}, found in Tools > Preferences >Audiogram. You can enter your own corrections here if they differ from those in Oasis^{nxt}.

After finishing REMfit™ with IMC 2

How do I delete the adjustments made in REMfit™?	If you have performed speech mapping in REMfit™ but you don't want to save the measurement, this can be done by simply selecting the Discard all button in the Finish tab.
Is it possible to undo the REMfit™ measurement after having applied them?	No. You can set the hearing aids back to target but in that case you lose all the previous gain adjustments.
Is there a way to see the results after a fitting?	This can be done in Print report > Hearing Care Professional > REMfit™, respectively REMfit™ speech mapping report. If the REMfit™ data you want is in a previous session, open the corresponding session to be able to see the REMfit™ report.

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IMC 2 compatibility overview

Brand	Interacoustics				MedRx		Otometrics	Auditdata	Sivantos
Hardware	Affinity		Callisto		MedRx		Aurical	Primus	Unity 3
Tested Software Version	Affinity Suite 2.12	Affinity Suite 2.13	Callisto Suite 1.10	Callisto Suite 1.11	MedRx Avant REM 3.3	MedRx Studio 1.0	OTOSuite 4.84	Primus 3.2.0.0 (ER3)	Unity 5.5.0.0
Tube Calibration	●	●	●	●	●	●	●	●	●
Unaided (TEUG)	●	●	●	●	●	●	●	●	●
Insertion gain LTASS (REIG)	●	●	●	●	●	●	●	●	●
Speech mapping LTASS (REAR)		●	●	●	●	●	●	●	●
Percentiles		●		●		●	●		
SII		●		●					
MPO		●		●			●		
MAX SPL					●	●	●		
Works without Noah	●	●	●	●	●	●			

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2020-03-17/UK/subject to change

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