What's New









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1 Introduction

The purpose of this document is to give you an overview of the new features in Primus 3.0.0.0.

Please note that this is NOT a mandatory update from the previous version, 3.0.0.0.

The first few sections give you a brief description of the most important new features. To get a full list of the enhancements and fixes done in this release, take a look at the <u>Release Notes</u> section.

2 Test Definitions and Workflows

2.1 Setting Up Test Definitions in Primus

Test definitions are pre-configured measurements based on the test types available within the system. You can set up a test definition for every test type available in Primus by configuring the signal type, level, transducer, masking stimulus, and other options. Once set up, you can proceed to conducting measurements with predefined test settings.

Go to **Tools** -> **Test Definitions** to locate a Test Definitions window. Here, navigation tabs on the left represent the main modules in the application. Use the buttons on the right panel to set up test definitions for every module.





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If needed, you can modify the test settings in the module as well. Right click the test definition in the Test Types section and select **Edit test definition** to make necessary changes.

 Test 	t Types
ο×	HTL
0 X	BC
οX	M Edit test definition 🔺
0 X	UCL
οx	FF
ο×	TEN
ο×	Weber
o ×	SISI
ТТ	Tinitus
	Add measurement 🔻

2.2 Configuring Workflow Support

Primus now features the new workflow support utility which guides you through the necessary measurements step by step. The purpose is to provide the ability to follow company defined test protocols and open the test steps in their predefined configuration.

Workflow support can be activated under **Tools** > **Settings** > **Workflow**.

Settings			-		×
🗖 General	^	Workflow Settings			
Network			Sys	stem Setti	ngs
Common		Activate workflow support			
Database		Note: Activating workflow support will hide the short cuts selected for	r the typ	oes of visi	ts
Language		and will disable the selection below. Define Workflow steps from the "Test Definition".	Tools m	enu entry	(
Client Information		Types of Visits			
Workflow		First vicit (default)		\.d.d	
Measurement		Follow-up Visit)oloto	
Reporting		Last Visit		Edit	



You can find the preconfigured out of the box workflows by going to **Tools** > **Test Definitions** > **Workflows**. Here, you can add your own custom workflows. Use the buttons on the right to customize the workflows according to your needs.



As you customize the workflow, you have the list of steps with the description.

Editor For Workflow	V			×
Workflow Name Description	Full workflow			
Workflow Steps	Name	Description	Mandatory Yes	Add
	BCL MCL		No No	Remove
	SRT		Yes	Up
	KEIG		NO	Down

Select Edit to make individual settings for this step.

Editor For Wor	kflow Step	×
Name Description	BCL	
Duration Step Type	 ✓ Mandatory 10 Minutes Pure Tone Audiometry: BCL 	*
	OK Cance	



O Primus	Daily I	Suild Version 2.	7.0.325. Only fr	r test Current	diant John Do	5,0000002,8/16	/1966		
File View	То	ols Help							
🗎 🎿 🎗	4	2 🕹 🔒	?						
Workflow	Ful	l workflow	•	Start	* HTL	×	BCL	► MC	L
2	Sess	sion List							
	•	11/6/2017 역 맛	11/9/2017 역	11/26/2018 역 3	12/18/2018 () ම	12/19/2018 () ³⁶)	1/4/2019 ෆී වු _ර	1/9/2019 ^{දු} මු	1/10/2019 මීම වු _ර ලී
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T		Client Num	nber 0000002						
		First Na Last Na Date of B Ger	ame John ame Doe Birth 8/16/196 Age 52 Ider Male	6					
$\mathbf{\Omega}$		Addre Post C	ss 1 City ode						

After you restart Primus, the workflow will appear on the top panel of the application.

Click **Start** to begin. The first workflow step will be highlighted and after clicking on it you will be directed to the corresponding module where the preconfigured test will open.

After you are done, click **Finish** to complete the workflow.



3 Tympanometry

3.1 View Tympanometry Data

The new Tympanometry Tasks module allows displaying tympanometry measurement results from NOAH.

This module is designed to help a user follow the workflow by reviewing test results and analyzing data. Please note that you cannot conduct any tympanometric measurements directly in Primus.

Primus supports displaying the following types of Impedance measurements stored in Noah:

- Tympanometry measurements
- Reflex measurements





4 Audiometry

4.1 New Severity Overlay

We have added a new Severity overlay to the **Pure Tone** module. It provides additional information on the degree of the patient's hearing loss.



4.2 Effective Masking

Masking output is now displayed either in dbSPL (when restSPL = 0) or in dbEM (effective masking). This depends on the type of masking noise you have selected. Effective masking means it is efficient enough to mask the stimulus signal.

Stimulus	Right TDH-39			Left TDH-39	•	Masking
Store	30 dBHL ⁺	1000 Hz	+	50 dBEM	+	 On Off Tracking Tracking Off Off
No Response	Pure Tone 👻			Speech Noise	Ŧ	Opposite 🔻

4.3 New CD Offset Parameter for Level Calculation

Some speech CD schemas now include a CD offset parameter for calculating levels. This parameter is only used for the following schemas: "Wörter für Gehörprüfung mit Sprache VERBESSERT" and "Freiburger Westra". CD offset is used when a dB SPL view is selected.



4.4 Korean PTA calculation

You can enable an alternative way to calculate PTA as used in South Korea. This can be done from **Tools** > **Settings** > **Audiometry** > **PTA/CPT**.

Settings			-		\times
🗖 General	^	Audiometry - Pure Tone Average Settings / CPT Settings			
Network Common Database Language		Pure Tone Average Frequencies 125 250 500 750 1000 1500 2000 3000 4000 6000 8000 16000	Sj	vstem Sett	ings
Client Information		Use South Korea PTA calculation Enable CPT			
 Reporting CD and Media Files Folders Key Mapping Manager 					
Loudspeaker selection Audiometry Default Views					
Controls Measurement Standard PTA/CPT					
Talk Over					



5 REM/SM

5.1 New target rules parameters

We have added two new parameters for the target rules in the REM/SM modules.

Open targets to set compression speed for all target rules.

Measurement Settings	×
General Fitting Settings Age 52 • Years O Months Client Type Adult • Bilateral I	Input Level Use one target curve Input Level 55 - +
Hearing Instrument Description Use the same setup for both ears Right HI Name HI S/N HI SYN HI SYN BTE Vert Siz	Left HI Name HI S/N HI Style BTE ~
Compression Speed Dual / Adaptive * Fast Slow	Compression Speed Fast
Slow Dual / Adaptive Use the same setup for both ears Both Default (NAL-NL2) Peak target offset, dB	
	OK Cancel

You can also specify the number of channels for the NAL-NL1 and NAL-NL2 target rules. Select the rule and then click **Setup** to open the Hearing Instrument Settings window.

Target Rule Selection
✓ Use the same setup for both ears
Both Default (NAL-NL2) Setup Peak target offset, dB 0

Set the required number of channels in the corresponding field.

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Hearing Instrument Settings	×
Preset Name Custom (NAL-NL2) Target Rule NAL-NL2	•
Limiting CT of Wide Band Language Hearing Aid Experience Control Microphone Orientation Tubing Number Of Channels	Off 52 Non-Tonal Experienced 0° Libby 4 1
	OK Cancel



6 Calibration

6.1 View Calibration History

You can now view the complete calibration history in Primus. Open **Sound Field Calibration** where all calibration sessions are listed chronologically. You can also see the name of technician who performed each calibration.

Calibration of Free Field	Loudspeakers			×
Date	Modules	Technician Name	Comment	
3/14/2019 1:39 PM	Pure Tone	John Doe		
			Print Report Do Calibratio	on

Select any session and click **Print Report** to print it out.



7 System Wide Enhancements

7.1 Show Latest Diagrams for Reports

You can now select the option to show the latest Pure Tone and Speech diagrams for the following German language reports: Muster & Hörgeräteversorgung.

Note: This is only available in the German version of Primus.

Berichte	×
Berichte Audiometrie SISI Bericht SISI Bericht Insitu REM-Bericht SM Speech-Mapping-Bericht HIT HIT HIT-Bericht Formulare Muster_15 Form Hörgeräteversorgung	Muster_15 Form ✓ Neueste Reinton- und Sprachdiagramme zeigen
	Vorschau Drucken Schließen



8 Release Notes 3.0.0.0

This version of the Primus software release contains the following enhancements:

Audiometry

- New severity overlay
- Masking output displayed in dbSPL or dbEM
- New CD offset parameter for level calculation in Speech
- Korean PTA calculation

REM

• Compression speed and number of channels parameters for the target rules

Calibration

• View the complete calibration history and print every session

Tympanometry

• New Tympanometry Tasks module to display tympanograms from NOAH

System Wide Enhancements

- Customizable test definitions for every test type
- Workflow utility to guide the user through the necessary measurements step by step
- Show latest diagrams for some German language reports

Supported Languages

• English, German, French, Polish, Turkish, Danish, Finnish, Spanish, Italian, Hungarian, Korean, Chinese, and Japanese.

Bug Fixes and Other Improvements

Dependencies

This version supports NOAH versions 4 or higher. To use the Primus Panel under AuditBase System, AuditBase version 4.17.01 or higher is required.

Installation

To upgrade to Primus 3.0:

- 1. Run the set-up file: Setup_Primus_3_0_0_0.exe.
- 2. Follow the instructions on the screen and your system will be updated.

9 Support

For further information, please visit <u>www.auditdata.com.</u>