



Science **made** smarter

Technical Release Note  
ONLY for Distributors

# IA OAE Suite 1.1



**Interacoustics**

Title:	IA OAE Suite 1.1 Technical Release Note
Project:	IA OAE Suite 1.1 for Eclipse and Lyra
Author:	Sune Thorning Kristensen, Technical Product Manager, ABR/OAE
Date issued:	May 2020

## Table of Contents

Introduction.....	3
Improvements.....	3
General info.....	3
Windows compatibility.....	3
PC minimum requirements.....	3
Language options.....	4
Where to locate the IA OAE Suite software.....	4
New feature – Forced Start.....	4
New or updated marketing material on Extranet.....	5
Fixed incidences.....	5
Software upgrade - Eclipse.....	5
New Eclipse software installation media.....	5
Eclipse checklist before installing.....	6
Hardware requirements.....	6
License requirements.....	6
Calibration procedure.....	6
Backup.....	6
Protocols and print templates.....	6
Installation procedure.....	7
Firmware upgrade.....	7
About Eclipse - Did you know?.....	7
Software upgrade - Lyra.....	8
Lyra software installation media.....	8
Lyra - Checklist before installing.....	8
License requirements.....	8
Compatibility with other software.....	8
Calibration procedure.....	8
Backup.....	8
Procedure.....	9
Firmware upgrade.....	9
Lyra - Did you know?.....	9

# Introduction

Dear distributor & colleague

We are happy to announce IA OAE Suite 1.1 for Eclipse and Lyra. This release note is only for you! Please do not forward it to end-users.

The aim of this Technical Release Note is to provide you with information about new features and improvements as well as necessary details for the update process. This should ensure that you are able to assist and guide the user in the best possible way to ensure a successful update.

The software installation guide at the end of this document contains two sections: one describing installation with Eclipse, and another describing installation with Lyra.

## Improvements

IA OAE Suite 1.1 includes a few new functionalities in TEOAE and DPOAE tests and a new quick guide for daily checks of your OAE equipment.

## General info

### Windows compatibility

Before installation, please ensure that the Windows® operating system is compatible with the new software module.

	Noah 4	OtoAccess® Database
<b>Current released version</b>	4.12	1.5, 2.0
Windows® compatibility		
- 7 Professional – 32 bit (SP1)	Yes	Yes
- 7 Professional – 64 bit (SP1)	Yes	Yes
- 8 Professional – 64 bit	Yes	Yes
- 10 Professional – 32 bit	Yes	Yes
- 10 Professional – 64 bit	Yes	Yes

### PC minimum requirements

- Core i3 CPU or better (Intel recommended)
- 8 GB RAM or more
- Hard drive with min 10 GB free space (Solid State Drive recommended)
- Minimum display resolution of 1280x1024 pixels (higher recommended)
- DirectX 11.x compatible graphics (Intel/NVidia recommended)
- One USB port, version 1.1 or higher

## Language options

German, Spanish, Italian, Russian, Polish, Portuguese, Chinese, Japanese, Turkish, French, Korean, Czech and English are included.

## Where to locate the IA OAE Suite software

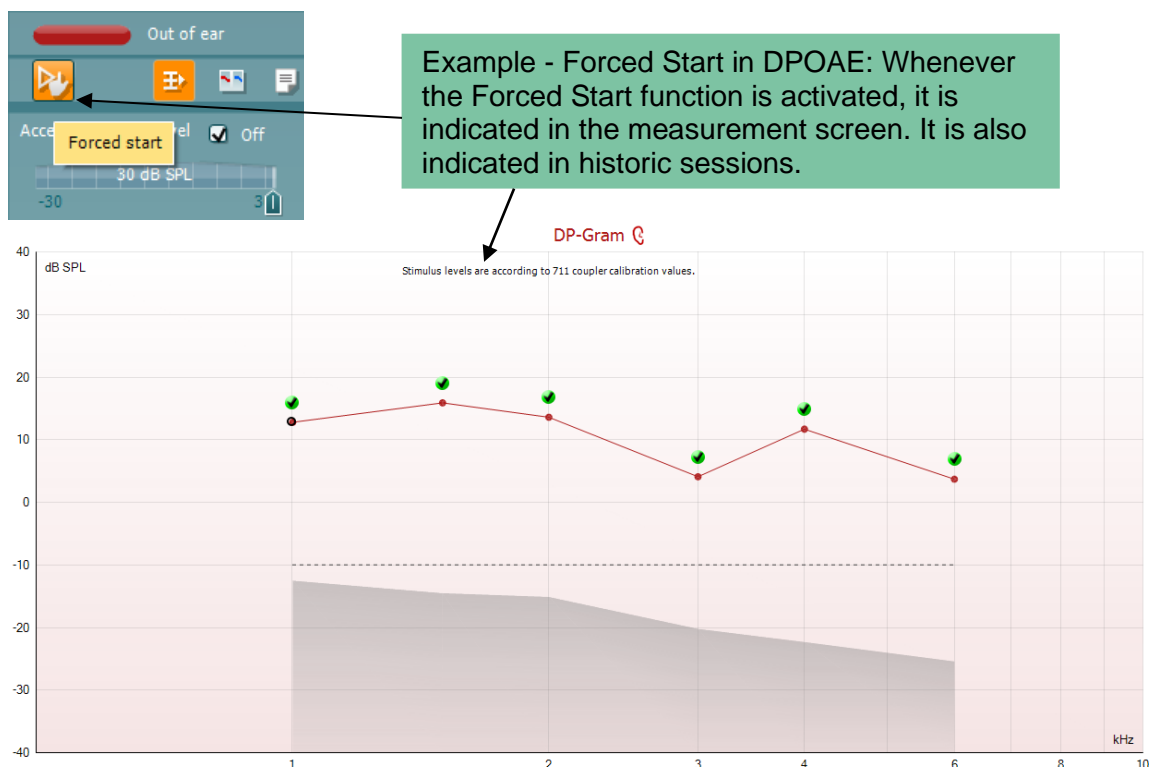
1. Please log on to the Interacoustics extranet and click on DOWNLOADS
2. Select Eclipse | Product Updates.
3. Select IA OAE Suite 1.1 to download the zip file to the computer.
4. Unzip the folder before installation.

## New feature – Forced Start

Forced Start is a new feature that enables the clinician to measure OAEs when the patient has PE-tubes or a perforation in the tympanic membrane. As the in-ear calibration in OAE relates to an equivalent ear-canal volume in the normal range, the in-ear calibration needs to be overwritten in order to measure OAEs in the above-mentioned cases.

When Forced Start is used, ear-canal volume is not considered for the stimulus. Instead, the protocol will use a 711-coupler calibration as reference for the stimulus level.

In TEOAE and DPOAE, Forced Start has been implemented in a similar fashion to the Forced Start option previously released for IMP measurements. It is now possible to use Forced Start in OAE measurements both on the handheld device and when operating through the IA OAE Suite.



## New or updated marketing material on Extranet

Instructions for Use	Manual	Updated
Additional Information	Manual	Updated
Daily System Checks for OAE Devices	Quick guide	New
Technical Specifications	Tech. specs.	Updated
Service Manual	Manual	Updated

## Fixed incidences

<b>INC-9967</b> Incorrect session date on print out
<b>INC-36173, INC-36611, INC-36612, INC-36613</b> Crash when adding 'standalone' client to hardware
<b>INC-23137, INC-25019</b> Crash when trying to print multiple overlaid DPOAE sessions
<b>INC-29713</b> PE-tube testing in the OAE software – IA OAE Suite
<b>INC-28809, INC-27267</b> Suite is slow when running under OtoAccess® Database
<b>INC-27559</b> Probe picture needs updating in user guide
<b>INC-32723</b> Crash when printing from OAE Suite
<b>INC-32287</b> Incorrect date of birth in OtoAccess® Database

## Software upgrade - Eclipse

The following guide is for IA OAE Suite software purchased with Eclipse.

### New Eclipse software installation media

All Eclipse installation software is combined into a single USB media. The USB is included in each Eclipse shipment containing all recent software for Eclipse.

Eclipse Software USB 1.0 – PN 8513229

*This contains all the Eclipse modules.*

OAE Suite software 1.1 incl. Language Pack
EP15/EP25/VEMP International
EP15/25/VEMP Language Pack
ABRIS IA
ABRIS Language Pack.
ASSR IA
ASSR Language Pack

### NOTICE

Markets where the IA OAE Suite requires a new registration will not receive the USB media (as it includes the IA OAE Suite) and will continue to receive CD-ROMs until the registration is completed.

# Eclipse checklist before installing

## Hardware requirements

The OAE software is compatible with Eclipse devices released since 2006 from serial number 253653 (ERAboard3).

There are no other hardware requirements, besides having the OAE probe re-calibrated and connected to Eclipse.

## License requirements

Each OAE module requires a new OAE license.

Customers already using DPOAE20 and/or TEOAE25 can use the IA OAE Suite in parallel.

As the new IA OAE Suite is a major upgrade with new functionalities, the current licenses and calibration for the earlier DPOAE20 and TEOAE25 cannot be reused. Therefore, installing the new IA OAE Suite requires purchase of new licenses and a new calibration before use.

## Calibration procedure

If using an existing Eclipse, please follow the calibration instructions provided in the updated Eclipse service manual.

If purchased from factory, the calibration is already stored on Eclipse.

The software can be installed on any PC, fulfilling the installation requirements.

## Backup

When upgrading the IA OAE Suite from an earlier version, there is an option to keep all user settings on the PC. However, if you wish to back up protocols and print templates, follow the steps below.

Export of protocols:

To export a protocol, you need to enter the **Protocol Setup** menu.

- Select **Menu | Setup | Protocol setup...**
- Select the protocol to export from **Selected protocol** drop down menu
- Press **Export**
- When prompted, select Yes or No for saving the file as read-only. **Exporting a protocol as read-only results in the protocol being protected against any setting changes when imported back into the IA OAE Suite**
- Browse to the location where you want to store your protocol. Name the file and press **Save**

Export of custom templates in Print Wizard:

- Select **Menu | Print | Print Wizard...**
- From the 'Templates' section, simply drag templates you wish to export to the PC desktop or a dedicated folder elsewhere on the PC

## Protocols and print templates

There is no need to back up the existing module protocols or print templates. The customer can continue to use their existing settings in DPOAE20 and TEOAE25 after installing the new IA OAE Suite.

If needed, you can remove DPOAE20 and TEOAE25 using the Windows® 'Remove' function.

## Installation procedure



If this is a new installation, install OtoAccess® Database or Noah 4 prior to installing IA OAE Suite 1.1



Ensure any databases are closed before starting the installation of the IA OAE Suite.



Ensure that Eclipse is turned off before starting the installation.

1. Locate the downloaded software (unzipped) or insert the USB stick into a USB drive on the PC.
2. Select the setup.exe file to start the installation and follow the steps in the installation wizard.
3. Turn on Eclipse and wait for the device driver to install automatically.
4. Launch OtoAccess® Database or Noah 4 and locate the shortcut icon to start the software.

## Firmware upgrade

There is no required firmware upgrade to run the IA OAE Suite software with Eclipse.

## About Eclipse - Did you know?

1. Eclipse is one of the few instruments on the market that fulfills the strict patient safety standard IEC 60601-1:2005 and the A1:2012 Type B applied parts safety standard.  
Medical devices must comply with the above-mentioned standards.  
Eclipse was updated at the beginning of 2018.
2. The OAE is calibrated as per the following standards:  
Test signal: IEC 60645-1:2012/ANSI S3.6, IEC 60645-3
3. Eclipse with the IA OAE Suite meets the following OAE type standards:
  - TEOAE IEC 60645-6:2009, Type 1 & 2 Otoacoustic emissions
  - DPOAE IEC 60645-6:2009, Type 2 Otoacoustic emissions

If you require further information about the IA OAE Suite software, please refer to the updated Eclipse Service Manual, Additional Information and Instructions for Use.

You may also find the information in the End-user Release Note.

Feel free to contact us in case of further questions at [service@interacoustics.com](mailto:service@interacoustics.com).

## Software upgrade - Lyra

The following guide is for IA OAE Suite software purchased with Lyra.

### Lyra software installation media

Lyra is shipped with the installation software on a USB media for ease of installation.

Lyra Software USB 1.0 – Part Number 8513099 - digipack

8513099	IA OAE Suite software 1.1 incl. language for Lyra
---------	---

## Lyra - Checklist before installing

### License requirements

Each OAE module requires an OAE license for Lyra.

### Compatibility with other software

Customers already using Eclipse DPOAE20 and/or TEOAE25 or the Titan Suite can use the IA OAE Suite in parallel on the same PC.

The IA OAE Suite software is the same used for both Lyra and Eclipse (see recent update on Eclipse OAE).

### Calibration procedure

The OAE probe is calibrated before delivery according to the purchased module. See the Service Manual for details.

If needed, please follow the calibration instructions provided in the Lyra Service Manual.

### Backup

When upgrading the IA OAE Suite from an earlier version, there is an option to keep all user settings on the PC. However, if you wish to back up protocols and print templates, follow the steps below.

Export of protocols:

To export a protocol, you need to enter the **Protocol Setup** menu.

- Select **Menu | Setup | Protocol setup...**
- Select the protocol to export from **Selected protocol** drop down menu
- Press **Export**
- When prompted, select Yes or No for saving the file as read-only. **Exporting a protocol as read-only results in the protocol being protected against any setting changes when imported back into the IA OAE Suite**
- Browse to the location where you want to store your protocol. Name the file and press **Save**

Export of custom templates in Print Wizard:

- Select **Menu | Print | Print Wizard...**
- From the 'Templates' section, simply drag templates you wish to export to the PC desktop or a dedicated folder elsewhere on the PC

The customer can continue to use their existing settings in DPOAE20, TEOAE25, DPOAE and TEOAE (Eclipse and Titan) after installing the IA OAE Suite for Lyra. Should you already have the IA OAE Suite installed for Eclipse, no software update is required.

## Procedure



If this is a new installation, install OtoAccess® Database or Noah 4 prior to installing IA OAE Suite 1.1



Ensure any databases are shut before starting the installation of the IA OAE Suite.



Ensure that Lyra is disconnected before commencing the installation.

1. Locate the downloaded software (unzipped) or insert the USB stick into a USB drive on the PC.
2. Select the setup.exe file to start the installation and follow the steps in the installation wizard.
3. Connect Lyra and wait for the device driver to install automatically.
4. Open OtoAccess® Database or Noah 4 and locate the shortcut icon to start the software.

### Firmware upgrade

The firmware is part of the IA OAE Suite software for Lyra and no specific upgrade procedure is needed as the firmware is factory-installed.

### Lyra - Did you know?

1. The OAE is calibrated as per the following standards:  
Test signal: IEC 60645-1:2012 /ANSI S3.6, IEC 60645-3
2. Lyra with the IA OAE Suite meets the following OAE type standards:  
TEOAE IEC 60645-6:2009, Type 1 & 2 Otoacoustic emissions  
DPOAE IEC 60645-6:2009, Type 2 Otoacoustic emissions

If you require further information about the IA OAE Suite software, please refer to the updated Lyra Service Manual, Additional Information and Instructions for Use.

You may also find the information in the End-user Release Note.

Feel free to contact us in case of further questions at [service@interacoustics.com](mailto:service@interacoustics.com).