

# Noah 4 Mobile App Certification Test

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## Revision History

| Version | Author    | Date       | Changed pages   | Change  |
|---------|-----------|------------|-----------------|---|
| 0.1     | CC        | 9-11-2015  | Initial version | N.A.  |
| 0.2     | SP        | 9-29-2015  | all             |   |
| 0.3     | CC        | 11/11/2015 | 33-53           | Added Low Level test steps.   |
| 0.4     | SP        | 1/6/2016   |                 |   |
| 0.4     | CC        | 1/8/2016   | All             | Reorganized the test steps.   |
| 0.5     | SP CC AVR | 1/12/2016  | All             | General Review  |
| 0.6     | SP        | 1/14/2016  |                 | See marked changes. Version .5 was reviewed with the certification committee. HIMSA is asked the committee to approve this version – or point out issues to address. This was approved by the committee |
| 1.0     | SP        | 1/27/2016  |                 | Very minor corrections were made. This is the first official release of this test.  |

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# 1. Introduction

## 1.1 Purpose of this test and documentation

The overall purpose of the test is to ensure that the App developer has properly integrated the App with Noah. Once the test procedures have been successfully completed and appropriately verified by HIMSA the App will be granted “Certified” status. Apps integrated with Noah must be certified by HIMSA before being used by hearing care professionals.

The test document has the following purposes:

- Provide a structured test that HIMSA member companies and HIMSA will follow.
- Provide the member company with a structure method for reporting important information about features and data security.
- Provide professionals with additional details to what the App supports and how certain features are tested. This completed test document will be publicly available as an additional resource to the App certification listing.

## 1.2 Abbreviations

GUI / Graphical User Interface

4.X / Latest version of Noah 4 on himsa.com.

App / Application utilizing the Noah mobile API to interact with Noah

Module / A software application which uses the NOAH 3 or Noah 4 module API

Application / a general word that could represent Noah, a module, or an App

LAN / Local Area Network

HCP / Hearing Care Professional – The Noah User

HCPB / Hearing Care Professional Business

## 1.3 General

HIMSA highly recommends that the HIMSA member company employees involved in the certification process be knowledgeable with the [HIMSA Certification Policy](https://www.himsa.com/default.aspx?tabid=4456), please see <https://www.himsa.com/default.aspx?tabid=4456>. The policy clearly documents the procedures and policies that followed.

### **Robot / Automated Test Scripting**

Some of the conformance test steps can become quite repetitive. It is acceptable with HIMSA if the member company wishes to create test scripts using robot testing for some or all of the tests. HIMSA does not dictate the testing tools that the member wishes to use. If the member wishes to use this type of technology we still do require that HIMSA receive written verification that all the test steps have been completed. This could be done in a couple of different ways:

- The tester fills out the paperwork manually after verifying that the test script has completed each step correctly
- The designer of the test scripts designs a method in which a human readable text log is created. This test log would clearly indicate test numbers and test sequences and indication of pass or failure.

## 1.4 What will be tested and reported

- **Security Considerations**  
This section will deal with security considerations that the App must implement and provide information on.
- **Data Access and Use**  
This section will deal with how the App access and uses patient data from the Noah database.
- **Interface between the App and Noah Mobile REST API**  
This test will ensure that the app can handle the properties, methods and events that *App API* makes available to the module (e.g. Discovery, Logon, Logoff, Token Destruction, and app reading/writing data).
- **User input**  
Simulate the basic usage that a real end user might perform.
- **Handling of situations where relevant data has been updated by another application**  
With the Noah mobile API it is possible that another software application could add or update data for the same patient record that the App is currently working with. Test steps are provided to give the App developer the ability to document how the App will handle these possible situations
- **App's correct interpretation of Measurement standards and use of Action converter(s)**  
If the app is able to read/write HIMSA defined public data standards (e.g. Audiograms) it must be able to interpret the standard correctly. HIMSA has different format versions for different standards. The app must be prepared to directly support the different versions or rely on Noah supplied features to provide the data in a format understood by the App.
- **Saving data to Noah that is not corrupt and in some cases may be required**  
If the App saves data to Noah that is used by Noah or other applications it must be done in a way where the data is not corrupted. Additionally, in limited situations, there may be agreements where data is required to be saved (e.g. A Fitting App will need to save a hearing aid model and serial number).

## 1.5 What will not be tested



- The HIMSA Certification Program is only focused on how the App works with Noah and how it processes Noah related data correctly. The program is not concerned about how “good” the app is in terms of visual appeal and logical implementation of the Apps business logic or GUI.
- Installation  
The App will of course need to be installed on a system that the App is supported on, this necessary to perform all the testing steps. However, it is not necessary focus on install and uninstall steps for all versions of an operating system(s)..
- The App may be supported on a number of different hardware devices. The HIMSA certification process is not able to support testing and certification based on specific hardware. The member company is invited to provide details in this document as to what hardware platforms are supported by the App.

## 1.6 How the test is performed

The test procedure can be found at <https://www.himsa.com/default.aspx?tabid=4484>, The procedure is subject to change.

## 1.7 Legend

This legend is used to describe the color coding used throughout the rest of this document. The test procedure (see link above) dictates a number of mandatory and optional tests. Additionally, there are a number of mandatory and optional features that the app supports. Colors are used rather than writing text.

| No.    | Test subject  | How this App addresses the topic  |
|--------|---|---|
| Yellow | Mandatory features and documentation – Full Test Track  | Steps where the test number cell is shaded in yellow and the test subject is white, must be completed by each app during a “Full Test Track” test.  |
| Blue   | Optional features and documentation – Full Test Track   | Steps where the test number cell is shaded in blue and the test subject is white are optional: <ul style="list-style-type: none"> <li>· If the feature is not supported by the App then the report <u>must</u> be filled out indicating “not supported”</li> <li>· If the feature is supported then steps where the test number cell is shaded in blue must be completed by each app during a “Full Test Track” test.</li> </ul>        |
| Yellow | Mandatory features and documentation – Fast Track or Full Test Track  | Steps where the test number cell is shaded in yellow and test subject is highlighted in green must be completed by each app during a Fast or Full Track test.   |
| Blue   | Optional features and documentation – Fast Track or Full Test Track<br><br>If the feature is not supported by the App then the report should be filled out indicating “not supported”<br><br>If the feature is supported then steps where the test number cell is shaded in blue must be completed by each app during a “Fast Test Track” test. | Steps where the test number cell is shaded in blue and the test subject is white are optional: <ul style="list-style-type: none"> <li>· If the feature is not supported by the App then the report <u>must</u> be filled out indicating “not supported”</li> <li>· If the feature is supported then steps where the test number cell is shaded in blue must be completed by each app during a Fast or Full Test Track” test.</li> </ul> |

## 1.8 General Information

| No. | Topic Title                    | Topic Details  | Response  |
|-----|--------------------------------|--|---|
| 1   | Full Test Track for Fast Track | Inform HIMSA what type of a test procedure you are applying for, Full Test Track or Fast Track, see <a href="https://www.himsa.com/default.aspx?tabid=4484">https://www.himsa.com/default.aspx?tabid=4484</a> for more details.  | <p><b>Indicate Full for Fast Track</b></p> <p>Full Test Track</p>   |
| 2   | Version of this document       | <p>The latest version from himsa.com must be used at the time of submission to HIMSA.</p> <p>It is possible that HIMSA may update this document while the member company is in the middle of testing internally. HIMSA does allow an exception where the previous version of this document may be used for 3 business weeks after a new version is released.</p>   | <p><b>What is the latest version of this document published by HIMSA?</b><br/> <input type="text" value="1.0"/></p> <p><b>What version of the document is being used for this test?</b> <input type="text" value="1.0"/></p>      |
| 3   | Noah Mobile API                | Record what version of the Noah Mobile API that is being used by this App  | <p><b>What version of the Noah Mobile API is being used?</b> <input type="text" value="1.0"/></p>   |
| 4   | Noah System Version            | <p>The latest released version (build) of Noah System must be used.</p> <p>It is possible that HIMSA may update Noah System while the member company is in the middle of testing internally. HIMSA does allow an exception where the previous version of Noah may be used for 3 business weeks after a new version is released. However, if HIMSA performs any validation testing it will be completed on the latest released version.</p> | <p><b>What is the latest version of Noah System released by HIMSA?</b> <input type="text" value="4.5.1.2881"/></p> <p><b>What version of Noah System is being used for this test?</b> <input type="text" value="4.5.1.2881"/></p> |

| No. | Topic Title                             | Topic Details   | Response  |
|-----|---|---|---|
| 5   | Production Environment used for testing | HIMSA provides an external test environment for member company developers to develop and test their apps.<br><br>This external test environment <u>cannot</u> be used for this test. The production environment must be used. | <p><b>What test environment was used for this test?</b></p> <p>external test</p> <p><a href="#">It is the only environment we have at this time</a></p>   |
| 6   | Version of the App?                     | The App must have a version number and be located in a location that could be reasonably discovered by a hearing care professional.   | <p><b>List the version of the App</b> 2016.2</p> <p><b>Where is the version number located?</b></p> <p>We mention the date in the support page. Go to <a href="https://alpha.audyx.com/#/support">https://alpha.audyx.com/#/support</a></p> |
| 7   | Web Browser Based App?                  | If the App is designed to run from within a Web browser please indicate this as this information impacts a number of items in this document   | <p><b>Is the App Web browser based?</b></p> <p>Yes</p> <p><b>If Yes, please indicate if there are any requirements to the web browser that is supported by the App?</b></p> <p>Chrome most recent version</p>                               |
| 8   | Language support                        | Which Languages are supported by your App?  | <p><b>List what languages are supported</b></p> <p>fr,en</p>  |

**Comment [LPJ1]:** HIMSA has accepted this because the production environment was not available for Audyx at the time of test. HIMSA has successfully repeated the test using the production environment

**Comment [LPJ2]:** Changed on behalf of Audyx

| No. | Topic Title                           | Topic Details  | Response   |
|-----|---------------------------------------|--|--|
| 9   | <b>Native App</b>                     | <p>Native operation means that the app interacts with special API methods that are provided by an operating system (e.g. iOS, Android, MS Windows)</p> <p>If the App provides native operating system support for many different operating systems a separate report and test submission is required</p> <p>If an app is supported on different operating systems it must also use a different App ID (provided by HIMSA) for each operating system.</p> | <p><b>Is this app developed for a specific operating system?</b></p> <p>No <input type="text"/></p> <p><b>If Yes, please indicate which operating system (only one) is being represented in this test</b></p> <p><input type="text"/></p> <p><b>If Yes, confirm that each app/OS is using a different App ID.</b></p> <p>Choose an item. <input type="text"/></p> <p><b>If Yes, If the app has requirements as to the the version(s) of the operating system that is supported please list them here</b></p> <p><input type="text"/></p> |
| 10  | <b>Supported Hardware for the App</b> | <p>If the App developer has any special notes on supported hardware devices for the App (e.g. type/brand of tablet) it can be noted here</p>   | <p><b>Note any supported hardware requirements if necessary.</b></p> <p><input type="text"/></p>   |

| No. | Topic Title   | Topic Details   | Response  |
|-----|---|---|---|
| 11  | <b>Limitations when hardware is not present</b>                         | <p>HIMSA is aware that sometimes software may react (e.g. make features available) only when hardware (e.g. an Audiometer) is actually connected to the computer.</p> <p>HIMSA prefers that NOAH related scenario interactions can be simulated without the need for hardware (e.g. hearing instruments or Audiometers) being connected whenever possible.</p> <p>In cases where App functionality is only present when hardware is connected the member company is required to provide HIMSA with sample data records that represent data created by the hardware dependent functionality.</p> | <p><b>Are there any hardware limitations?</b></p> <p><a href="#">YES</a></p> <p><b>If Yes, explain and also provide a sample record to HIMSA</b> <input type="text"/></p> <p>Users must calibrate their fitting room with a pre-calibrated digital microphone that our support can deliver to the users.</p> <p>In order to use Audyx for demo purpose only, use the URL demo to enable access to the test without calibration, and without a calibrated microphone <input type="text"/></p> <p><a href="https://audio.audyx.com/?demo">https://audio.audyx.com/?demo</a></p> <p><b>or in alpha system</b></p> <p><a href="https://alpha.audyx.com/?demo">https://alpha.audyx.com/?demo</a></p> |
| 12  | <b>Creation of measurement data formatted via a HIMSA data standard</b> | <p>If an App supports saving measurements a patient record (exported .nhax file) with all measurement types that the App supports must be submitted along with a document describing exactly what measurement conditions were used for each measurement.</p>  | <p><b>Does the App create measurement data formatted via a HIMSA measurement data standard?</b></p> <p><input type="text" value="Yes"/></p> <p><b>If Yes, explain and also provide a sample record to HIMSA</b> <input type="text"/> The NHAX file is being sent <a href="#">via email</a> <input type="text"/></p>   |

| No. | Topic Title                    | Topic Details  | Response   |
|-----|--------------------------------|--|--|
| 13  | <b>Public Listing</b>          | <p>If an App wishes to be certified then the App developer must agree to have the App + App version number listed by HIMSA's web site as certified.</p> <p>It is O.K. for the App developer to decline public listing but the developer cannot be listed as certified, claim certification, or release it outside of development.</p> <p>See<br/> <a href="https://www.himsa.com/default.aspx?tabid=4540">https://www.himsa.com/default.aspx?tabid=4540</a></p>  | <p><b>If the certification procedure is passed and approved by HIMSA can the App be listed publicly?</b></p> <p>Yes <input type="text"/></p> <p><b>If No, confirm agreement that the App will not be released(write agreed)</b> <input type="text"/></p> |
| 14  | <b>Commercial Availability</b> | <p>Indicate if the App is available commercially. If not yet commercially available then the App developer must indicate to HIMSA when the app will be commercially available and if that date changes the app developer has the responsibility to inform HIMSA.</p> <p>Apps will technically not be commercially available during a certification as of the HIMSA requirement that all Apps must first be certified. If the App developer answers yes it is then assumed that it will be commercially available within 2 days.</p> <p><a href="https://www.himsa.com/default.aspx?tabid=4540">https://www.himsa.com/default.aspx?tabid=4540</a></p> | <p><b>Is the app commercially available?</b></p> <p>No <input type="text"/></p> <p>If No, specify to HIMSA what future data that it will be commercially available (unknown is not acceptable) <u>2/14/2016</u></p>                                      |

| No. | Topic Title                    | Topic Details   | Response   |
|-----|--------------------------------|---|--|
|     | <b>How is the app obtained</b> | <p>If the App is commercially available then it must be available to other HIMSA member companies for testing and troubleshooting purposes. The following responses can be used:</p> <ul style="list-style-type: none"> <li>- The App is available via an App Store (please specify)</li> <li>- The App is a browser based solution. In this case email the web address and needed credentials separately to your HIMSA certification testing contact</li> </ul> <p>The App is an program that is installed (e.g. MS Windows install package)</p> | <p><b>How is the App obtained?</b></p> <p>_____ browser based_____.....</p> <p><b>Himsa member companies that will require to test Audyx within their environment will make a request to <a href="mailto:support@audyx.com">support@audyx.com</a> to obtain a test account dedicated for each company.</b></p> |



## 1.9 Security Considerations

This section checks for the compliance and support the security related topics as defined in the Noah Mobile API, <http://www.himsa.com/default.aspx?tabid=4445> The complete SDK text must be read for a full explanation.

| No. | Topic  |   |
|-----|--|---|
| 1.  |  |   |
| 2.  | <b>Computing Device Security Tools</b><br><br>HIMSA and its member companies need to take responsibility to educate users on the importance of security for mobile devices (and PC laptops). All HCP's need to be encouraged to setup the lock screen functionality as doing so will provide additional security. For example, setting up the lock screen in iOS and Android enables drive/storage encryption. | Provide a written description (attach documentation or web link) of your companies education materials for this topic.<br><br>Document attached |
| 3.  | <b>Web Browser Autocomplete Considerations</b><br><br>HIMSA and its member companies need to take responsibility to educate users on the importance of making the correct choice when being prompted to save a user name and password in conjunction with the authentication process.  | Provide a written description (attach documentation or web link) of your companies education materials for this topic.<br><br>Document attached |

## 1.10 Data Use and Access

This section checks for compliance and support of the security related topics as defined in the Noah Mobile API, <https://www.himsa.com/default.aspx?tabid=4446> The complete SDK text must be read for a full explanation.

| No. | Topic | How this App addresses the topic |
|-----|-------|----------------------------------|
|-----|-------|----------------------------------|

| No. | Topic   | How this App addresses the topic   |
|-----|---|--|
| 1   | <p><b>Does the App read or write data to patient records not presently selected by the HCP?</b></p> <p>With user interactive apps the HCP is, by default, assumed to be in control of informing the App to read or write data to a single or group of patients.</p> <p>Example of allowed access:</p> <ul style="list-style-type: none"> <li>A. Using the GUI provided by the App the HCP selects a patient to work with. The App then reads data (e.g. latest audiogram), conducts work and saves an action back to Noah.</li> <li>B. The App could also provide the ability to select many patients (e.g. 10), in this case the HCP has given permission for the App to read/write data with these selected patients.</li> <li>C. It would also be acceptable for the App to offer to perform a simple query (e.g. find all patients that have at least one action created by the app) , show a list of those patients, and then read or write data.</li> </ul> <p>Example in improper access:</p> <p>The App cannot read or write data for any patient without the HCP being aware. For example, based off C above, it is not allowed for the App to perform this simple query in the background, without gaining the HCP consent first.</p> | <p><b>Does the App read or write data to patient records not presently selected by the HCP? No</b></p> <p><b>If Yes, explain in what situations this occurs</b></p> <p>.....</p> |

| No. | Topic   | How this App addresses the topic  |
|-----|---|---|
| 2   | Explicit notification?  | <p>Does the App copy data and provide an explicit notification? <b><u>NO</u></b></p> <p>Yes</p> <p>If Yes, document what data is copied and what it is used for.</p>  |
| 3   | Implicit notification of data copy?   | <p>Does the App copy data which falls under the category of Implicit notification of data copy, and the copy is reasonably obvious to the HCP?</p> <p>No</p> <p>If Yes – document how the data copy is implicit</p> <p>.....</p>                |
| 4   | Does the App provide a formal statement on the use of data obtained through Noah? | <p>Does the App provide a formal statement on the use of data obtained through Noah?</p> <p>No</p> <p>If Yes – Provide a written description (or attach documentation or web link) of your companies materials for this topic.</p> <p>.....</p> |

| No. | Topic   | How this App addresses the topic   |
|-----|---|--|
| 5   | How does the App handle Noah data after the use of the data is completed? | <p>What does the App do with the Noah related data once a patient or group of patient is done being worked with? Write an explanation.</p> <p>The app does not copy ANY data from Noah</p> |

## 1.11 Test Report

I hereby agree that I have correctly answered all questions in the above section 1 and completed all functional tests and any additional required information in section 2.

HIMSA requires that this report be signed by a Manager that is knowledgeable in how the App interacts with Noah (e.g. use of data and security). Software quality assurance and development employees are asked to make arrangements with a manager to review results and sign.

HIMSA will accept this test when all questions have been answered. Many tests are optional, in these case you are still required to mark or indicate that you do not support the feature so that it is clear to HIMSA any other company reading the report

Name: Philippe Cohen

Title: CTO

Signature: \_\_\_\_\_ Date: Feb 9<sup>th</sup> 2016

(It is acceptable to type in the name and date if the report is being sent electronically)

**Test Software, this report, and other related information must be received by HIMSA by 8:30 a.m. on the first day of a full test track test.**

## 2. Functional Test Steps

### 2.1 Precondition Test Setup

These are procedural steps used to set the system up for testing.

| Step | Description  | Expected Behavior  | Test Result          |
|------|--|--|----------------------|
| 1    | Clean Installation of the latest Version of Noah 4.<br><br>The App under test was never registered with this installation of Noah.   | There is a clean installation of the latest released version of Noah 4 System. | Pass                 |
| 2    | Create a login in Noah 4 System with the name "XYZ." Assign administrator rights to "XYZ."   | The "XYZ" administrator account has been created.                              | Pass                 |
| 3    | Create a login in Noah with the name "CBA." Assign this login level 2 rights to "CBA."   | The "CBA" Noah 4 System user account with level two rights has been created.   | Pass                 |
| 4    | Enable Noah Mobile in Noah 4 System with either "Enable Noah Mobile on your Network" or "Enable Noah Mobile over the Internet" selected. Chose the one that the App under test supports.<br><br>If the App under test supports both then check both options. | Noah Mobile has been enabled.  | Pass                 |
| 5    | Verify "Allow Edit Actions" is checked within  | Editing of actions within Noah 4 System is allowed.                            | <a href="#">Pass</a> |

|   |   |  |   |
|---|---|--|---|
|   | Noah System.<br>Setup>Administration>Noah Mobile Configuration  |  |   |
| 6 | Create a patient record within Noah 4 System called "John Doe"  |  | Pass  |
| 7 | Create a patient record within Noah 4 System called "Jane Johnson"<br><br><i>*Note: This patient record will be used for testing the the editing of actions created on a previous calendar day. This patient has to be created in Noah with data created by the App under test at least one full calendar day before it will be use. If this feature is not supported by the App under test steps 7-9 can be skipped.</i> | The "Jane Johnson" patient record has been created in Noah 4 System.           | Choose an item.<br><br>Edit old actions from previous days is not supported |
| 8 | Create data with the App under test for "Jane Johnson" save this data to Noah System.   | The App under test has created data and saved data to Noah for "Jane Johnson." | Choose an item.   |



## 2.2 App Discovers Noah on A LAN

| No. | Test subject  | How this App addresses the topic  |
|-----|---|---|
|     | <p><b>App discovers Noah on a LAN</b></p> <p>The App may be able to discover the Noah Server on a LAN Connection. The user will need to be able to select/confirm that the app, in the next steps, will connect to the correct server.</p> <p>Precondition: the Noah installation is setup to allow a LAN connection.</p> | <p><b>Does the App support functioning over a LAN connection?</b></p> <p>No</p> <p>If yes, the below test steps must be completed</p> |

| Step | Description   | Expected Behavior   | Test Result     |
|------|---|---|-----------------|
| 1    | Use the Discovery feature in the App under test to find Noah 4 System on the LAN. | The App under test will be able to find the Noah 4 System Server by the alias name. | Choose an item. |

## 2.3 Connecting the App to Noah via a LAN

| No. | Test subject   | How this App addresses the topic  |
|-----|--|---|
|     | <p><b>App Logins into Noah on a LAN</b></p> <p>The app must be able to gain access to Noah by having an interactive user log into Noah via a LAN connection.</p> | <p><b>Does the App support functioning over a LAN connection?</b></p> <p>No</p> <p>If yes, the below test steps must be completed</p> |

| Step | Description   | Expected Behavior     | Test Result     |
|------|---|-----------------------|-----------------|
| 1    | Login with the App under test with the Noah 4 System user "CBA" account which has level 2 rights. | The App is logged on. | Choose an item. |

## 2.4 App Discovers Noah Over the Cloud

| No. | Test subject | How this App addresses the topic |
|-----|--------------|----------------------------------|
|-----|--------------|----------------------------------|

|  |  |  |
|--|--|--|
|  | <p><b>App discovers Noah on over the Cloud</b></p> <p>The App may be able to discover the Noah Server on a Cloud Connection. The user will need to be able to select/confirm that the app, in the next steps, will connect to the correct server.</p> <p>Precondition: the Noah installation is setup to allow a Cloud connection.</p> | <p><b>Does the App support functioning on a Cloud connection?</b></p> <p>Yes</p> <p>If yes, the below test steps must be completed</p> |
|--|--|--|

| Step | Description   | Expected Behavior  | Test Result   |
|------|---|--|---|
| 1    | Use the Discovery feature in the App under test to find Noah 4 System on the Cloud. | The App under test will be able to find the Noah 4 System Server by the Alias. | <p style="background-color: #D3D3D3;">Pass</p> <p><b>Done as part of the config process</b></p> <p>Enter <a href="https://alpha.audyx.com/#/configuration">https://alpha.audyx.com/#/configuration</a> as center admin and click on the Center edit pencil. Setup the Noah connectivity (alias) and then push OK.</p> |

## 2.5 Connecting the App to Noah via the Cloud

| No. | Test subject   | How this App addresses the topic   |
|-----|--|--|
|     | <p><b>App Logs into Noah via Cloud access.</b></p> <p>The App can login the Noah Server via the cloud connection. The user will need to be able to select/confirm that the app, in the next steps, will connect to the correct server.</p> | <p><b>Does the App support functioning over the cloud connection?</b></p> <p>Yes</p> <p>If yes, the below test steps must be completed</p> |

| Step | Description   | Expected Behavior     | Test Result  |
|------|---|-----------------------|--|
| 1    | Login with the App under test with the Noah 4 System user "CBA" account which has level 2 rights. | The App is logged on. | <p>Fail</p> <p><b>Fails as long as the app is not yet registered. Will succeed after that.</b></p> |

**Note: From this point on the App under test can be connected via the Cloud or LAN unless otherwise specified.**

## 2.6 User Rights

| No. | Test subject  | How this App addresses the topic       |
|-----|---|--|
|     | <p><b>Noah user does not have sufficient privileges</b></p> <p>The app must be able to handle the situation where a user does not have sufficient privileges.(e.g. Admin) to register the app. The user must be informed that they do not have sufficient privileges.</p> | The below test steps must be completed |

| Step | Description   | Expected Behavior   | Test Result  |
|------|---|---|--|
| 1    | Attempt to register the App under test with Noah 4 System. logged in with the Level 2 "CBA" user. | The App under test is unable to register. The App under test displays a message informing the end user that this login does not have sufficient rights to register with Noah. | Pass   |
| 2    | Log off the App under test.   | The App logs off. The token is destroyed.   | Pass<br><br>As said before, the CBA user can't log in since the app is not registered yet. |

## 2.7 Registering With Noah

| No. | Test subject   | How this App addresses the topic              |
|-----|--|---|
|     | <p><b>App registers with Noah</b></p> <p>The app must be able to register with Noah</p> <p>Precondition: The Noah installation is clean from the perspective that this app does not show up in the Noah Mobile setup screen.</p> | <p>The below test steps must be completed</p> |

| Step | Description  | Expected Behavior                                | Test Result |
|------|--|--|-------------|
| 1    | Login with the App under test with the Noah user "XYZ" account which has administrator rights. | The App is logged on.                            | Pass        |
| 2    | Register the App under test with Noah 4 System.  | The App under test registers with Noah 4 System. | Pass        |

## 2.8 Logging Off

| No. | Test subject | How this App addresses the topic |
|-----|--------------|----------------------------------|
|-----|--------------|----------------------------------|

### Log off Noah via App

The App must provide a GUI item that will make it easy for the user to log off Noah. Once this has been selected the App is required to destroy the token that was provided to the app at login – the token is the authentication to Noah access. The GUI item needs to be available at all times.

At log off any Noah patient related data that may have been stored in the app / or on the mobile device is recommended by HIMSA to be completely destroyed. HIMSA requires that this be the case unless the App developer clearly is offering a feature where the data will reside for a longer period of time than the current working session (see section “Planned Times With No Internet Connection” for more details).

If the App developer is going to keep the Noah data after log off then the developer will need to document in this test document:

- How will the data remain safe during log off
- Will the data be transferred to another system
- How will app track what users have potentially accessed the data while not connected to Noah

List where the log off GUI is located \_\_\_\_\_ Side bar menu\_| Log out\_\_\_\_\_.....

Does the App destroy all Noah related data after log off?

YES

The application does not copy any data from NOAH and therefore does not store any Noah related data neither during the session or after session log-off

If No, please provide documentation to the below questions:

- How will the data remain safe during log off?  
\_\_\_\_\_.....
- Will the data be transferred to another system?  
\_\_\_\_\_no\_\_\_\_\_.....
- How will app track what users have potentially accessed the data while not connected to Noah?  
\_\_\_\_\_?\_\_\_\_\_.....

The below test steps must be completed



| Step | Description  | Expected Behavior  | Test Result  |
|------|--|--|--|
| 1    | Logoff the App under test.                               | The App logs off. The token is destroyed.  | Pass   |
| 2    | Attempt to search for the "Jane Johnson" patient record. | The "Jane Johnson" patient record is not found. The App should notify the user that they need to log in again. | Pass<br><b>Search UI won't be open unless the user is connected to Noah via NM</b> |
| 3    | Login within the App under test using the "CBA" login.   | The App is logged on to Noah 4 System.   | Pass<br><b>User is prompted to log in at test termination</b>                      |

## 2.9 User Name GUI

| No. | Test subject | How this App addresses the topic |
|-----|--------------|----------------------------------|
|-----|--------------|----------------------------------|

|  |  |   |
|--|--|---|
|  | <p><b>Status of this test subject: HIMSA has not yet implemented this feature but does plan to do so in the future.</b></p> <p>App provides GUI indicating the Noah user name</p> <p>The app is required to provide a visual method that clearly and easily shows Noah user account is currently being used.</p> | <p>There is nothing for the App to do at this time. When the feature is implemented the App will be asked to document where the user name is shown in the App GUI</p> |
|--|--|---|

## 2.10 Closing the App

| No. | Test subject   | How this App addresses the topic |
|-----|--|----------------------------------|
|     | <p><b>App is closed</b></p> <p>If the App is closed either by the user or by the operating system the app must consider this a log off</p> <p>App technology notes:</p> <ul style="list-style-type: none"> <li>Web Browser based Apps / browser technology creates a situation where it is not realistic to perform this test. If the user navigates away from the web page (browse back, open new URL, close browser tab/window) it is not standard that the browser page would for a log off. Web Browser Apps are required to select N/A Browser App for any test steps in this section.</li> </ul> |                                  |

| Step | Description  | Expected Behavior  | Test Result     |
|------|--|--|-----------------|
| 1    | Close the App under test.  | The App closes. The token is destroyed if the user was logged on when the App closed.                          | N/A Browser App |
| 2    | Open the App under test and attempt to search for the "Jane Johnson" patient record within the App under test. | The "Jane Johnson" patient record is not found. The App should notify the user that they need to log in again. | N/A Browser App |

## 2.11 Unregistering the App

| No. | Test subject  | How this App addresses the topic  |
|-----|---|---|
|     | <p><b>App unregisters with Noah</b></p> <p>The app can offer the user the ability to unregister with Noah in the event the user does not wish the app to be interacting with Noah. As the registration is per Noah Server and not per Noah workstation an App might be registered once but that registration is good for the app running on many devices in the office.</p> | <p><b>Does the App support unregistering with Noah?</b></p> <p>No</p> <p>If yes, the below test steps must be completed</p> |

| Step | Description  | Expected Behavior  | Test Result     |
|------|--|--|-----------------|
| 1    | Login to Noah with the user "XYZ" account which has administrator rights.  | You are logged on to Noah 4 System.                                | Choose an item. |
| 2    | Unregister the App under test.   | The App under test unregisters with Noah 4 System.                 | Choose an item. |
| 3    | Verify the App has unregistered by checking within Noah 4 System.<br>Setup>Administration>Noah Mobile Configuration. | The App under test does not appear in the list of registered apps. | Choose an item. |
| 4    | Register the App under Test with Noah 4 System.  | The App under test is registered with Noah 4 System.               | Choose an item. |
| 5    | Log off the App under test.  | The App is logged off.   | Choose an item. |

## 2.12 Searching for Patients

| No. | Test subject   | How this App addresses the topic  |
|-----|--|---|
|     | <p data-bbox="259 387 461 419">Search for patients</p> <p data-bbox="259 459 1025 515">The app provides the user with the ability to search and select the patient record that the user wishes to work with.</p> | <p data-bbox="1061 387 1485 419">The below test steps must be completed</p> <p data-bbox="1061 427 1659 531">Search in Noah occurs only when attempting to save a test done in Audyx to Noah. At this stage we match the patient in Audyx to the corresponding patient in Noah and create it if not existing in Noah.</p> <p data-bbox="1061 539 1619 595">The search of the corresponding patient is done via a search API call in NM.</p> |

| Step | Description  | Expected Behavior                        | Test Result   |
|------|--|--|---|
| 1    | Login with the App under test with the Noah user "CBA" account which has level 2 rights. | The App is logged on.                    | Pass<br><br>To work ok in Audyx, we need first to create an Audyx patient named John Doe, run an audiometric test and then when prompted the user will have an opportunity to search John Doe in Noah |
| 2    | Search for the "John Doe" patient record.  | The "John Doe" patient record was found. | Pass  |

## 2.13 Add a new Patient

| No. | Test subject | How this App addresses the topic |
|-----|--------------|----------------------------------|
|-----|--------------|----------------------------------|

|  |   |  |
|--|---|--|
|  | <p>Add a new patient record to Noah</p> <p>If the app wishes, it can offer the ability to add patients to Noah. The app will be assigned different levels of access to demographic data by the HCP. The app can only add patient demographic data to Noah that it has access to read. The app cannot give the HCP the ability to collect additional demographic data and then give the impression that it can add it to Noah. The app is responsible for reading the permissions to determine what demographic fields are available to the app.</p> | <p>Does the App support adding new patients to Noah?</p> <p><b>Yes</b></p> <p>If yes, the below test steps must be completed</p> |
|--|---|--|

| Step | Description  | Expected Behavior   | Test Result   |
|------|--|---|---|
| 1    | Create a patient called "Jane Smith" from within the App under test. | The "Jane Smith" patient record has been added to Noah 4 System and can be found in the Noah 4 System patient list. | <p><b>Pass</b></p> <p>Steps to validate this scenario:</p> <ol style="list-style-type: none"> <li>1. Create Jane Smith in Audyx</li> <li>2. Perform a pure tone audiometry, click Terminate</li> <li>3. A synchronise patient dialog is open, select the create option</li> </ol> |

## 2.14 App Handles Mandatory Demographics

| No. | Test subject   | How this App addresses the topic   |
|-----|--|--|
|     | <p>App handles demographic fields that are marked as mandatory</p> <p>If the HCP has set a field to be mandatory and the app has the option to add this data then the App must provide this data in order to add the patient. The app has the responsibility to ask Noah what fields are mandatory</p> | <p>Version 1.0 of the Noah Mobile API is not implemented to the point but in the future it will be. What is possible today is to test the general idea. Today, This can be tested by ensuring that both a first and last name are entered.</p> |

| Step | Description   | Expected Behavior   | Test Result   |
|------|---|---|---|
| 1    | Create a patient with only a first name of "Jack" from within the App under test. | <p>The App under test returns a message stating that not all mandatory fields in Noah 4 System have been entered.</p> <p>The patient is not created</p> | <p>Pass</p> <p>Cannot perform this step since first and last names are mandatory in Audyx</p> |



## 2.15 Updating Patient Demographics

| No. | Test subject  | How this App addresses the topic  |
|-----|---|---|
|     | <p>Update a patient record's demographics</p> <p>If the App supports updating demographic data then the app will be tested to ensure this is done correctly</p> | <p>Does the App support updating patient demographic data?</p> <p><b>No</b></p> <p>If yes, the below test steps must be completed</p> |

| Step | Description  | Expected Behavior   | Test Result     |
|------|--|---|-----------------|
| 1    | Search for the patient called "John Doe" from within the App under test. | "John Doe" is found and is the active patient within the App under test.  | Choose an item. |
| 2    | Change "John Doe's" last name to "Smith" from within the App under test. | <p>The patient record has been updated to "John Smith" and the changed name can be seen in Noah 4 System.</p> <p>Note: If Noah 4 System was open during these test steps you may need to close it and reopen Noah System to see the updated patient name.</p> | Choose an item. |

## 2.16 Saving an Action

| No. | Test subject  | How this App addresses the topic   |
|-----|---|--|
|     | <p>Action Creation</p> <p>Most apps create some sort of data to be stored in Noah. The app will need to create all of the different types of data that are supported. For data that is publicly formatted (e.g. audiograms) testing will be performed to see how other applications reading this data use it.</p> <p>Precondition – The app creates data to be saved in Noah. Almost all apps create data but if the app only views data then this step can be skipped.</p> | <p>Does the App support creating action data?</p> <p>Yes</p> <p>If yes, the below test steps must be completed</p> |

| Step | Description   | Expected Behavior   | Test Result   |
|------|---|---|---|
| 1    | List all Noah defined data types that the App under test can create.                      | <p>List all Noah defined data types that the App under test stores within Noah 4 System have been recorded in the data type section of the test result section.</p> <p>For example if you have a fitting App:</p> <ol style="list-style-type: none"> <li>1.)Hearing Selection –Right</li> <li>2.)Hearing Selection-Left</li> <li>3.)Fitting-Right</li> <li>4.)Fitting-Left</li> </ol> <p>For example if you have a measurement App:</p> <ol style="list-style-type: none"> <li>1.)Audiometric</li> <li>2.)Real Ear Measurement</li> <li>3.)Impedence</li> </ol> | <ol style="list-style-type: none"> <li>1.)Audiometric</li> <li>2.)</li> <li>3.)</li> <li>4.)</li> <li>5.)</li> <li>6.)</li> </ol> |
| 2    | Create all datatypes supported by the App under test for the “John Smith” patient record. | All data types that are supported by the App under test have been created.  | Pass  |
| 3    | Save the data to Noah 4 System.   | <p>The data has been saved to Noah 4 System.</p> <p>Write down some of the features or settings you made within the App under test while creating data to be saved to Noah 4 System.</p>  | <p>Pass</p> <p>Tonal Threshold Audiometry Test</p> <p>Tonal MCL Audiometry Test</p> <p>Vocal SRT</p>                              |

|  |  |  |                 |
|--|--|--|-----------------|
|  |  |  | Audiometry Test |
|--|--|--|-----------------|

## 2.17 Actions Are Saved to the Correct Session

| No. | Test subject   | How this App addresses the topic   |
|-----|--|--|
|     | <p>Session History</p> <p>When an app saves data it will be expected to set any applicable referenced actions and action groups so that the session history is as expected in the Noah 4 System session browser.</p> <p>Please see the Noah 4 Module Developers Guide &gt; Action &gt; ActionGroup and ReferencedActions property information for proper use</p> | <p>Does the App support creating action data?</p> <p>Yes</p> <p>If yes, the below test steps must be completed</p> |

| Step | Description   | Expected Behavior   | Test Result  |
|------|---|---|--|
| 1    | In Noah 4 System actions can be seen in the "John Smith" patient record's session list. | All data saved to Noah 4 System can be seen as action(s), referenced actions, and/or action groups in the "John Smith" patient record's session list. | <p>Pass</p> <p>Document what actions are saved and how they may be referenced</p> <p>Tonal Threshold Audiometry Test</p> <p>Tonal MCL Audiometry Test</p> <p>Vocal SRT Audiometry Test</p> |

## 2.18 Devices Are Displayed in the Noah System "Devices" GUI

| No. | Test subject | How this App addresses the topic |
|-----|--------------|----------------------------------|
|-----|--------------|----------------------------------|

|  |  |   |
|--|--|---|
|  | <p>The app selects and/or fits hearing instruments. The app under test saves the "Make", "Model" and "Serial Number" of the devices selected as publicly formatted data so that Noah System will display the information in the "Devices" GUI component.</p> <p>Failure to store this required information is considered a critical failure due to the fact that to the end-user it appears to be data loss.</p> | <p>Does the App select and/or fit hearing instruments?</p> <p><b>No</b></p> <p>If Yes, the below test steps must be completed</p> |
|--|--|---|

| Step | Description  | Expected Behavior  | Test Result     |
|------|--|--|-----------------|
| 1    | <p>Fitting Apps verify that the devices appear in the Noah 4 System "Devices" GUI for "John Smith."</p> <p>Measurement App or an "Other" App skip this step.</p> | The device make, model and serial number are present in the Noah 4 System "Devices" GUI. | Choose an item. |

## 2.19 Recalling Saved Actions

| No. | Test subject   | How this App addresses the topic  |
|-----|--|---|
|     | <p>Recalling Actions</p> <p>Apps that create data should also be able to recall and display or utilize data the app created.</p> | <p>Does the App support creating action data?</p> <p><b>Yes</b></p> <p>If yes, the below test steps must be completed</p> |

| Step | Description   | Expected Behavior   | Test Result  |
|------|---|---|--|
| 1    | Search for the patient "Jane Smith" from within the App under test.       | "Jane Smith" is found and is the active patient within the App under test.  | Pass   |
| 2    | Now search for the patient record "John Smith" within the App under test. | <p>"John Smith" is found and is the active patient within the App under test. Data saved to Noah 4 System for "John Smith" has been retrieved by the App under test. How the data is selected could be performed in many different ways depending on how the App has been developed.</p> <p>Use the notes of the settings or features saved to Noah 4 System from above to verify the data created by the App under test was saved correctly.</p> | <p>Pass</p> <p>Audyx is exporting audiometric test to Noah but is not (currently) importing audiometric test in Audyx via NM. So this scenario is not relevant to us</p> |

## 2.20 Editing Actions

| No. | Test subject | How this App addresses the topic |
|-----|--------------|----------------------------------|
|-----|--------------|----------------------------------|

|  |  |   |
|--|--|---|
|  | <p>Editing Actions within the current calendar day</p> <p>Apps do have the possibility to edit actions created by the App. Apps are not allowed by Noah to edit actions created by other Apps or other Noah compatible software. If supported, the App will be tested to ensure that it edit the desired actions correctly</p> | <p>Does the App support editing actions?</p> <p>Yes</p> <p>If yes, the below test steps must be completed</p> |
|--|--|---|

| Step | Description  | Expected Behavior  | Test Result  |
|------|--|--|--|
| 1    | In the "John Smith" patient record that is selected by the App under test make changes to the data.  | The data is updated.   | <p>Pass</p> <p>Example: Run a test on John Smith and save it.</p> <p>Then run another test and save it also. The previously created action will be updated</p> |
| 2    | Save the updated data to Noah 4 System.  | The updated data is saved to Noah 4 System.                                | <p>Pass</p> <p>See above.</p>  |
| 3    | Search for the patient "Jane Smith" from within the App under test.  | "Jane Smith" is found and is the active patient within the App under test. | Pass   |
| 4    | Go back to the "John Smith" patient record within the App under test and open the updated action to verify the changes were saved correctly. | The updated data for "John Smith" was saved correctly.                     | Pass   |



## 2.21 Monitoring for Inactivity

| No. | Test subject  | How this App addresses the topic   |
|-----|---|--|
|     | <p><b>Monitoring for Inactivity</b></p> <p>All apps are responsible to monitor for an inactive session. If the user is deemed to be inactive then the app will be responsible for logging the user off of Noah. Inactive means that the user has not performed actions within a number of minutes such as:</p> <ul style="list-style-type: none"> <li>· Moved their mouse or touched the screen</li> <li>· Entered data</li> </ul> <p>The default maximum number of minutes of inactivity is defined by HIMSA as 20 minutes</p> <p>For more details see <a href="http://www.himsa.com/default.aspx?tabid=4445">http://www.himsa.com/default.aspx?tabid=4445</a></p> | <p>Does the App set the default to be lower than HIMSA's default?</p> <p>Choose an item.</p> <p><a href="#">No</a></p> <p>Does the App provide a pre-emptive message to the user to stay logged on in the event that the defined period of inactivity has been reached</p> <p>Choose an item.</p> <p><a href="#">No</a></p> <p>Does the app provide the user with the ability to override the default period of inactivity, allowing the user stay logged on to Noah as long as possible?</p> <p>Choose an item.</p> <p><a href="#">Not yet.</a></p> |

| Step | Description   | Expected Behavior   | Test Result   |
|------|---|---|---|
| 1    | If the App under test does not use the default maximum number of minutes of inactivity as defined by HIMSA, 20 minutes, please note the time out period for the App under test.   | What is the time out period of the App under test?  | We apply the same rules for the overall Audyx authentication than for NM. |
| 2    | The App under Test has "John Smith" as the active patient record.   | "John Smith" is selected by the App under test.   | Choose an item.   |
| 3    | If the App under test has a feature in which the user is provided with the ability to change the default time before the App under test times out due to inactivity change this time to 5 minutes.<br><br>If the app under test does not support this optional feature this skip this step. | The time before the App under test times out due to inactivity has been changed to 5 minutes. | Choose an item.   |
| 4    | Do nothing until the App under test times out due to inactivity.  | The App under test notifies the end user that the App has timed out due to inactivity.        | Choose an item.   |
| 5    | Log the App under test into Noah 4 System with the Noah 4 System "CBA" login.   | The App under test is logged on to Noah 4 System.   | Choose an item.   |

**Comment [LPJ3]:** HIMSA has agreed to that the App is not required to log off in 20 minutes of inactivity for this version, with the understanding that it will be addressed for the next version.

## 2.22 Updating Actions from a Previous Session

| No. | Test subject  | How this App addresses the topic   |                          |
|-----|---|--|--------------------------|
|     | If the app supports updating action data created before the current calendar day this will be tested well as in a situation where editing of old actions is turned off. | Does the App support updating action data created before the current calendar day?<br>No<br><br>If yes, the below test steps must be completed |                          |
|     | <b>Step</b>   | <b>Description</b>   | <b>Expected Behavior</b> |
|     |   |  | <b>Test Result</b>       |

|   |  |   |                 |
|---|--|---|-----------------|
| 1 | Search for and select the “Jane Johnson” patient record within the App under test. | “Jane Johnson” is the active patient within the App under test. | Choose an item. |
| 2 | Edit some of the data created from the previous calendar day.                      | The data from a previous calendar day has been updated.         | Choose an item. |
| 3 | The updated data is saved to Noah 4 System.  | The updated data has been saved to Noah 4 System.               | Choose an item. |
| 4 | Close the App under test.  | The App closes.   | Choose an item. |
| 5 | Open the App under test and connect to Noah 4 System.                              | The App under test is open and connected to Noah 4 System.      | Choose an item. |
| 6 | Search for the “Jane Johnson” patient record within the App under test.            | “Jane Johnson” is the active patient within the App under test. | Choose an item. |
| 7 | Verify the changes you saved when updating this action were saved correctly        | The data was saved correctly.                                   | Choose an item. |
| 8 | Logoff of the App under test and close it.   | The App under test is logged off and closed.                    | Choose an item. |

## 2.23 Editing Of the Same Action by Two Users

| No. | Test subject   | How this App addresses the topic  |
|-----|--|---|
|     | <p>Same action edited</p> <p>As there is no patient or action locking within the Noah mobile API it is possible that an action is edited by two different instances of the same app at the same time. The first app to save will be accepted but the second app will be informed by Noah when saving that the action has been updated elsewhere. The app will need to be prepared to deal with this situation as it seems fit.</p> <p>The app developer will be required to document how the app will deal with this situation. For example the app could choose to stop and let the user reload the new data or it could just automatically choose to create a new action. Or, if supported, the app could take the responsibility to merge the data so that both changes are incorporated.</p> | <p>Does the App support editing actions?</p> <p>Yes</p> <p>If yes, the below test steps must be completed</p> |

| Step | Description  | Expected Behavior   | Test Result  |
|------|--|---|--|
| 1    | There are two devices with the App under test installed on them.<br><br>From this point on the devices will be referred to as Device A and Device B  | Two different devices have the App under test installed on them.  | Pass   |
| 2    | Connect the App under test on Device A and logon with the "CBA" logon. Accept the token.   | The App under test is connected to Noah 4 System on Device A and is logged on with user login "CBA." Access has been granted too.   | Pass   |
| 3    | With the App under test on Device A search for and select the "John Smith" Noah 4 System patient record.   | The "John Smith" patient record has been selected by the App under test on Device A.  | Pass   |
| 4    | Connect the App under test on Device B and logon with the "CBA" logon. Accept the token.   | The App under test is connected to Noah 4 System on Device B and is logged on with user login "CBA." Access has been granted too.   | Pass   |
| 5    | With the App under test on Device B search for and select the "John Smith" Noah 4 System patient record.<br><br><i>*Note: At this time the action(s) created by the App under test for the "John Smith" patient record is (are) loaded on both Device A and Device B. Both devices have the same action(s) open.</i> | The "John Smith" patient record has been selected by the App under test on Device B.  | Pass<br><br>Audyx does not retrieve Noah data so the whole scenario is not relevant. |
| 6    | With the App under test on Device A edit and save the updated action for the "John Smith" patient record.  | The App under test saves the updated action for "John Smith" from Device A to Noah 4 System.  | Pass   |
| 7    | With the App under test on Device B now attempt to edit and save an updated action for the "John Smith" patient record.  | A message is displayed by the App under test on Device B that says the updated action has been updated/ or changed because the action loaded into Device B is older than the action in Noah 4 | Pass<br><br>We do not display any alert,   |

|   |   |  |  |
|---|---|--|--|
|   |   | System.  | we just refresh the actions from the Noah patient and then post again the Audyx test based on the updated data |
| 8 | If the App under test supports the updating and saving of the data that was created by the App under test on Device B then save the updated data. | The app under test saves the data created by the app under test on Device B. | Pass   |

## 2.24 Read Standard Audiogram Formats

| No. | Test subject  | How this App addresses the topic   |
|-----|---|--|
|     | All Noah audiogram data standards for the types of audiometric data supported by the App under test are read and interpreted correctly. | Does the App support reading and displaying of audiometric data?<br>No<br><a href="#">We are not reading audiometric data from Noah.</a><br>If yes, the below test steps must be completed |

Note: Go to himsa.com and verify that you have downloaded the most current audiometric test data nhax files and the test reports that correspond for each one of the data test records. If the audiometric data file has not been updated since the last time you

tested your App with it and HIMSA has your previous test report for this data record, then you may omit testing against this data record.



| Step | Description   | Expected Behavior  | Test Result   |
|------|---|--|---|
|      |   |  |   |
| 1    | The tester has downloaded all audiometric test data records from <a href="http://www.himsa.com/default.aspx?tabid=1996">http://www.himsa.com/default.aspx?tabid=1996</a> The test reports for each data record are included with the same download. | The audiometric test patient zipped file has been downloaded.  | Choose an item.   |
| 2    | Import the All_Records.nhax file into Noah System.  | All the audiometric test patient records have been imported into Noah 4 System.  | Choose an item.   |
| 3    | Audiogram Data Standard Support Matrix document has been filled out by an appropriate member company employee   | Before this test begins HIMSA advises that this test report be filled out first to ensure the tester is aware of the App under test's support for different types of Audiometric data  | Choose an item.   |
| 4    | Open the App under test, login and grant access.  | The App under test opens and logs in to Noah 4 System.   | Choose an item.   |
| 5    | Select one of the patient records that was imported into Noah that contains actions from an audiometric measurement manufacturer.   | The session list appears.  | Choose an item.   |
|      | The App under test displays and/or uses the data correctly.   | <p>The audiograms are being displayed and or used correctly.</p> <p>Please note the sample patient record name and if the App under test used the audiometric data correctly.</p> <p>1.) Noah 4 Aud Module 1.0.1 Phones –Pass<br/>2.) Noah 4 Aud Module 1.0.1-Pass</p> | <p>1.)</p> <p>2.)</p> <p>3.)</p> <p>4.)</p> <p>5.)</p> <p>6.)</p> <p>7.)</p> <p>8.)</p> |

|   |   |   |   |
|---|---|---|---|
|   |   |   | 9.)<br>10.)<br>11.)<br>12.)<br>13.)<br>14.)<br>15.)<br>16.)<br>17.)<br>18.)<br>19.)<br>20.)<br>21.)<br>22.) |
| 6 | <p>Perform a simulation to create data and save the data.</p> <p>Note: If it is not possible to create simulated data with the App under test, the hardware must be connected and a real measurement must be performed.</p> <p>If the App under test does not support the creation of data this step and the next can be skipped.</p> | The App under test will be able to save data against the audiometric test patient record and save properly. | Choose an item.   |
| 7 | Look at the session list for the patient record and verify a new action(s) have been created by the App under test.   | There is newly created action(s) in the session list.   | Choose an item.   |

|   |  |  |                 |
|---|--|--|-----------------|
| 8 | Fill out the test report for the audiometric test patient data record that was just tested.        | The report is filled out and documents what the App under test uses and can show from the audiometric test data. | Choose an item. |
| 9 | Repeat the previous 6 steps for the remaining imported audiometric test patient data test records. | Record the name of the test record used.   | Choose an item. |

## 2.25 Network Malfunction

| No. | Test subject | How this App addresses the topic |
|-----|--------------|----------------------------------|
|-----|--------------|----------------------------------|

|  |   |
|--|---|
| <p>App Prepared for network malfunction / network issues</p> <p>Please see the “States of Data” section at <a href="https://www.himsa.com/default.aspx?tabid=4446">https://www.himsa.com/default.aspx?tabid=4446</a></p> <p>The App does need to be prepared for cases where a network issue prevents unsaved data from being committed to Noah. There are two main approaches that the App can implement:</p> <ol style="list-style-type: none"><li>1) Allow the user to keep trying until the network issue is resolved, but keeping the access token expiration in mind. If the access token is expired the app must permanently delete any unsaved data. If the session is expired then the user can try to continue saving but user must first be authenticated. Saving cannot be attempted until authentication is successful.</li><li>2) The App can save the data for later use but must then support and document the features covered in the next test section – “Planned Times With No Internet Connection”</li></ol> | <p>The below test steps must be completed</p> |
|--|---|

| Step | Description  | Expected Behavior  | Test Result  |
|------|--|--|--|
| 1    | Connect the App under test, logon with "CBA" and accept the token.   | The App under test is connected to Noah 4 System and is logged on with access granted.                   | Choose an item.  |
| 2    | Disable the network connection on the device or unplug the network cable if the App under test is browser based. | The App under test no longer has a connection to the Noah 4 System server.                               | Choose an item.<br><br>Audyx is a web app that will stop functioning once the device is disconnected |
| 3    | Search for the "John Smith" patient record in the App under test.  | A message appears informing the end user there is no longer a connection to the Noah 4 System server.    | Choose an item.  |
| 4    | Re-enable the network connection in the device or plug the network cable back in.                                | There is once again a network connection to the Noah 4 System server.                                    | Choose an item.  |
| 5    | The App under test reconnects to the Noah 4 System server.   | The App under test is once again connected to the Noah 4 System server and informs the end user of this. | Choose an item.  |
| 6    | Search for and select the "Jane Johnson" patient record in the App under test.                                   | The App under test has found and selected the "Jane Johnson" patient record.                             | Choose an item.  |

## 2.26 Planned Times with No Internet Connection

| No. | Test subject | How this App addresses the topic |
|-----|--------------|----------------------------------|
|-----|--------------|----------------------------------|

|  |   |
|--|---|
| <p>App supports planned times when no connection to Noah is possible</p> <p>Apps do have the possibility to obtain data from Noah and then work in a state where there is no connection to Noah. Data can be read and can be edited and added, but saved in the App. At a later time, when connected to Noah, the app can submit the changes to Noah.</p> <p>If the App supports this feature the developer will need to document how the feature is supported and how it is tested. At minimum the App developer must document:</p> <ul style="list-style-type: none"><li>· How does the App ensure that only appropriate users access the Data</li><li>· What is the user authentication system and how is it implemented?</li><li>· Provide details to how access to this data is tracked while not connected to Noah – the audit trail</li><li>· How is the data encrypted</li></ul> | <p>Does this app support adding, editing actions, adding or editing patients to Noah while there is no possible network connection to Noah?</p> <p>NO</p> <p>If Yes, describe the supported features. You will also need to include test steps written by you showing this is working correctly. Please consult with HIMSA certification staff before submitting for comment.</p> |
|--|---|

## 2.27 App Relies Upon Noah Data

| No. | Test subject   | How this App addresses the topic  |
|-----|--|---|
|     | <p>App relies upon other Noah data</p> <p>If an App relies upon actions or types of data that may be part of the patient record the app needs to be prepared for the fact that many apps could be working with this patient. Noah Mobile does not have a messaging feature to alert the app to updated data.</p> <p>If there is important data then the app will need to refresh data and look for the necessary changes and react as it necessary for the App.</p> <p>Example:<br/>A hearing instrument fitting App is open and reads a patient's latest audiogram and uses it as part of the fitting. The app or module that created the audiogram now updates the audiogram while the fitting app is still open.</p> <p>The app has the responsibility and choice to check with Noah to see if the data it is using has been updated.</p> | <p>Does the app rely on data ready from Noah to complete operations</p> <p><b>No</b></p> <p>If yes, document what data and how critical an update of this data, while the app is open, would impact the operation of the app _____.....</p> |



## 2.28 Audit Trail Feature

| No. | Test subject   | How this App addresses the topic   |
|-----|--|--|
|     | <p>Noah mobile makes extensive use of the audit trail feature to track all activity which includes HCP's and app activity. If the app supports making entries into the audit trail then document and test that it is functioning as desired.</p> | <p>Does the app support adding app created audit trail entries?</p> <p><b>No</b></p> <p>If Yes, document what type of entries are made<br/>           _____.....</p> |

## 2.29 Ensure that action is saved to the correct patient

| No. | Test subject   | How this App addresses the topic  |
|-----|--|---|
|     | <p>Action save to correct patient</p> <p>Although unlikely, it is technically possible for an App to accidentally attach an action to Noah where there is a mix-up between patient ID's. Noah has a safeguard to ensure that this does not happen and the Apps response to this scenario will be tested in this section.</p> | <p>Does the App support creating action data?</p> <p><b>Yes</b></p> <p>If yes, the below test steps must be completed</p> |

| Step | Description   | Expected Behavior   | Test Result |
|------|---|---|-------------|
| 1    | Within the Noah Console Database Administration Tools select the button to "New Database"                     | The Noah 4 System database has been replaced with an empty one.     | Pass        |
| 2    | Launch Noah 4 System and logon with ABC.  | Noah 4 System is open.  | Pass        |
| 3    | Create a patient record named "Jane Doe" in Noah 4 System.  | The patient record "Jane Doe" has been created in Noah 4 System.    | Pass        |
| 4    | Export the "Jane Doe" patient record out of Noah as a .nhax file to the desktop. Name the export "Test.nhax." | The "Jane Doe" patient record has been exported.                    | Pass        |
| 5    | Close Noah 4 System.  | Noah 4 System is closed.  | Pass        |
| 6    | Within the Noah Console Database Administration Tools select the button to "New Database."                    | The Noah 4 System database has been replaced with an empty one.     | Pass        |
| 7    | Open Noah 4 System and login as ABC.  | Noah 4 System is open.  | Pass        |
| 8    | Create a new patient record, "Joe Johnson," in Noah 4 System.   | The patient record "Joe Johnson" has been created in Noah 4 System. | Pass        |
| 9    | Recreate the "XYZ" Administrator logon from above.  | The logon with admin rights has been recreated.                     | Pass        |

|    |   |  |      |
|----|---|--|------|
| 10 | Connect the App under test, logon and accept the token.   | The App under test is connected to Noah 4 System and is logged on with access granted.   | Pass |
| 11 | Search for and select the "Joe Johnson" patient record in the App under test.   | The App under test has found and selected the "Joe Johnson" patient record.  | Pass |
| 12 | Navigate back to Noah 4 System and delete the "Joe Johnson" patient record.   | The "Joe Johnson" has been deleted from Noah 4 System.   | Pass |
| 13 | Import the "Test.nhax" file on the desktop into Noah 4 System.  | The nhax file is imported and "Jane Doe" is the only patient record in the patient list.   | Pass |
| 14 | In the Noah Console change the Noah 4 system numbering from automatic numbering to manual numbering.                    | The patient numbering has been changed from automatic to manual.   | Pass |
| 15 | In Noah 4 System select the "Jane Doe" patient record.  | "Jane Doe" is selected in Noah 4 System.   | Pass |
| 16 | Edit the "Jane Doe" patient record patient number. Change it to "0000001" save the changes.                             | The "Jane Doe" patient number has been changed.  | Pass |
| 17 | In the App under test which still has "Joe Johnson" selected create some data and attempts to save it to Noah 4 System. | The App under test displays a message informing the end user that the patient record "Joe Johnson" does not exist in Noah 4 System and the data cannot be saved. | Pass |
| 18 | Close the App under test.   | The App closes.  | Pass |



# Instructions d'installation

## Utilisation d'audyx

Audyx est une plateforme audiolgogique en ligne pour la prise en charge de patients atteint d'un déficit auditif. Elle s'exécute sur un ordinateur connecté à internet ainsi qu'à un système électro-acoustique. Elle peut, **en tant qu'audiomètre**, produire et contrôler l'intensité de signaux de tests ou tout autres signaux habituellement utilisés pour une évaluer l'audition et poser un diagnostic de troubles auditifs.

## L'utilisateur

L'utilisation et la réalisation de tests auditifs avec le logiciel audyx est réservé aux audioprothésistes et **médecins O.R.L.**, ainsi qu'aux membres de leur équipes et sous leur supervision.

## Législation

*Note: pour les utilisateurs n'exerçant pas en France. Veuillez vous référer à la législation de votre pays concernant les conditions d'exercice de la profession d'audioprothésiste et la salle de mesures audioprothétiques .*

Les conditions d'exercice de la profession d'audioprothésiste sont définies par les articles L510-1 à L.510-8 du Code de la Santé Publique. Les professionnels demandant l'adhésion à la convention doivent être titulaires du diplôme d'état d'audioprothésiste ou du diplôme d'état de Docteur en Médecine. L'audioprothésiste doit également être inscrit sur la liste établie par le Préfet du Département d'exercice, auprès de l'Agence Régionale de Santé qui lui délivrera un numéro Adéli.

### La cabine

Le local doit répondre aux exigences fixées par les textes applicables en matière d'accessibilité aux personnes à mobilité réduite. Le décret n° 85-590 du 10 juin 1985 fixe les conditions d'aménagement du local réservé à l'activité d'audioprothésiste et le matériel dont il doit disposer.

“Le local réservé à l'activité professionnelle d'audioprothésiste comprend soit un cabinet et une cabine insonorisée, soit une salle de mesures audioprothétiques d'un volume utile minimum de quinze mètres cubes. Dans les deux cas, le niveau de bruit dans les conditions normales d'utilisation ne doit pas excéder 40 dB A à exprimer en niveau constant équivalent sur une durée d'une heure ; le temps de réverbération ne doit pas, pendant les mesures audioprothétiques, y être supérieure à 0,5 seconde à la fréquence de 500 hertz.”

## Configuration matérielle et logicielle

Pour une utilisation du logiciel audyx dans des conditions optimales, votre poste de travail doit remplir les conditions suivantes :

### Système d'exploitation

Microsoft Windows 7 ou plus récent ou tout autre système d'exploitation supporté par Google Chrome y compris Mac OS 10,6 et plus récent.

### Internet

Une connectivité Internet minimale de 2 Mbit/sec. est requise pour une utilisation fluide de l'application audyx.

Dans le cas où votre accès internet est contrôlé et limité à certain serveur, l'administrateur réseau doit ouvrir les accès à cette liste de domaine.

- \*.audyx.com
- ajax.googleapis.com
- audyx.s3.amazonaws.com
- bam.nr-data.net
- csi.gstatic.com
- fonts.googleapis.com
- fonts.gstatic.com
- js-agent.newrelic.com
- maps.googleapis.com
- www.google-analytics.com
- www.google.com
- api.honeybadger.io

### Navigateur internet

Audyx utilise des fonctions audio avancées des standards de l'Internet. Il est validé et supporté pour une utilisation sur le navigateur Google Chrome dont le système de mise à jour automatique doit être activé (comportement par défaut).

*Remarque : La page d'inscription est fonctionnelle sur tous les navigateurs afin de faciliter l'inscription depuis le mail d'invitation.*

### Haut-parleurs

La bande passante minimale recommandée pour les haut-parleurs est de 200H - 12000Hz. Les haut-parleurs doivent avoir la capacité à émettre un signal large bande d'une intensité de 90 dB mesuré à la position du patient, ainsi que des signaux d'audiométries tonale à une intensité de 90 dB SPL.

Pour effectuer des tests audiométriques en champ libre votre poste de travail doit être connecté à 5 ou 2 haut-parleurs et doit être calibré à l'aide d'un microphone numérique calibré.

Pour recevoir les instructions de configuration audio et pour recevoir un microphone digital calibré en dépôt, contactez le support audyx.

### Amplificateur

La bande passante minimale recommandée pour l'amplificateur est de 200Hz - 12000Hz. L'amplificateur doit avoir la capacité à émettre un signal large bande d'une intensité de 90 dB mesuré à la position du patient, ainsi que des signaux d'audiométries tonale à une intensité de 90 dB SPL.

### Carte son

Une carte son stéréo ou 5.1 est préconisée pour bénéficier d'une gestion multi haut-parleurs. La qualité de la carte son peut impacter la dynamique d'intensité de la mesure sans pour autant invalider la mesure sur la gamme d'intensité exploitable.

### Écran

Un écran de résolution Full HD (1920x1080) est conseillé pour une ergonomie optimale. Une résolution minimale de 1280 px de large est nécessaire.

### Exigences liées à la connectivité avec le logiciel Noah (HIMSA)

Afin de bénéficier de tous les fonctionnalités d'Audyx, les versions compatibles de Noah sont:

- Noah 4.3.x ou plus récent pour utiliser le module audyx pour Noah.
- Noah 4.5.x ou plus récent pour utiliser les fonctions Noah Mobile.

## Étapes de configuration

1. Validation de la connexion des haut-parleurs depuis le panneau de configuration audio du système d'exploitation.
2. Réglages des paramètres de l'ordinateur
  - a. Suppression des systèmes de traitement du signal de la carte son
  - b. Réglage du volume du système d'exploitation au niveau maximum
3. Création d'un compte utilisateur audyx
  - a. Création de centre et envoi du mail d'invitation par le support audyx
  - b. Validation de l'invitation afin de rejoindre le centre créé
  - c. Création de l'utilisateur avec nom, prénom et mot de passe
  - d. Acceptation des conditions générales d'utilisation.
4. Calibrage de la cabine
  - a. Branchement et positionnement du micro à la position occupé par le patient au cours d'un examen audiométrique.
  - b. Calibrage des niveaux émis par les haut-parleurs de la cabine avec Audyx
5. Désactivation de la suppression de cookies dans le Google Chrome et autres logiciels éventuels (C cleaner, anti-virus ...)
6. Téléchargement et installation du module Audyx pour Noah via la page support

## Connexion à la plateforme audyx

### Accès:

Pour accéder à votre compte audyx, veuillez vous connecter en indiquant l'identifiant et le mot de passe associé. Votre identifiant correspond à l'adresse mail indiquée lors de votre inscription à audyx. Vous pouvez le retrouver en consultant le mail d'invitation à la plate-forme reçu dans votre boîte de messagerie.



Si vous voulez changer votre identifiant, contactez le support audyx.

En cas d'oubli de votre mot de passe, cliquez sur le lien [Mot de Passe oublié ?](#). Vous recevrez un mail vous permettant de le définir à nouveau.

Si vous n'êtes pas encore inscrit, contactez le support audyx ou votre administrateur de centre afin d'obtenir une invitation pour rejoindre la plate-forme.

### Sécurité

Veillez à ne pas divulguer votre mot de passe à autrui et à ne pas mémoriser votre mot de passe sur un poste accessible à d'autres utilisateurs.

Au delà de cinq tentatives de connexion erronées, votre compte se bloquera et un mail de signalement vous sera envoyé à l'adresse mail d'inscription.

Une fois authentifiée, votre connexion sera valide pour une durée de huit heures. Vous serez ensuite déconnecté après une inactivité supérieure à une heure.



# Installation instructions

## Intended use

Audyx is an online audiology platform for patients care. It runs on a computing device connected to the Internet as well as to an electro-acoustic system to produce controlled signals to perform audiometric evaluation and to assist in the diagnosis of otological disorders.

## User

The use and realization of hearing tests with audyx software is reserved for audiologists, ENT and their team's members under their supervision.

## Legislation

*Note for users not practicing in France: Please refer to your country's legislation for the audiologist practice's conditions and legal requirements for audiometric cabin.*

The conditions for practicing as a hearing aid specialist are defined by articles L.510-1 to L.510-8 of the French Public Health Code. Hearing aid specialists applying for membership to the convention must hold the French state certificate as either a hearing aid specialist or a Doctor of Medicine. The hearing aid specialist must also be registered on the list kept by the Prefect of the French Department where the practice is located, through the French Regional Health Authority, which will issue an ADELI registration number.

### **Cabin**

The premises must meet the requirements set by the applicable regulations for accessibility to disabled people. French decree 85-590 of 10 June 1985 lays down the conditions for equipping the premises used for the hearing aid specialist's activity and the equipment it should have.

“The premises used for the hearing aid specialist's activity comprise either an office and a soundproof cabin, or an audiometric room with a minimum working volume of fifteen cubic meters. In both cases, the noise level under normal conditions of use must not exceed 40 dB A, to be expressed at equivalent constant level over a period of one hour; during audiometric measurements, the reverberation time must not be greater than 0.5 seconds at a frequency of 500 Hertz.”



## Hardware and Software requirements

For effective use of the audyx software, your workstation must fulfil the following conditions:

### Operating system

Microsoft Windows 7 or more recent versions, or any other operating system supported by Google Chrome including MacOS 10.6 and more recent versions.

### Internet

Minimum internet connectivity speed of 2 Mbit/sec.

If your internet access is controlled and restricted to some servers, the network administrator must open access to this domain list.

- \*.audyx.com
- ajax.googleapis.com
- audyx.s3.amazonaws.com
- bam.nr-data.net
- csi.gstatic.com
- fonts.googleapis.com
- fonts.gstatic.com
- js-agent.newrelic.com
- maps.googleapis.com
- www.google-analytics.com
- www.google.com
- api.honeybadger.io

### Web browser

Google Chrome with automatic updates (activated by default). Audyx uses advanced internet-standard audio functions and functions only with the Google Chrome browser.

*Note: The registration page is operational on all browsers to facilitate registration from the invitation email.*

### Loudspeakers

The recommended minimum frequency range for the loudspeakers is 200 - 12,000 Hz.

The loudspeakers must be able to emit a wide frequency range with an intensity of 90 dB measured at the patient's position, as well as tonal audiometric signals with an intensity of 90 dB SPL.

To carry out audiometric tests in free fields, your workstation must be connected to 2 or 5 speakers and must be calibrated using a calibrated digital microphone. To receive the instructions for audio configuration and to receive a calibrated digital microphone on loan, contact audyx support.

### Amplifier

The recommended minimum frequency range for the amplifier is 200 - 12,000 Hz.

The amplifier must be able to emit a wide frequency range with an intensity of 90 dB measured at the patient's position, as well as tonal audiometric signals with an intensity of 90 dB SPL.



### Sound Card

It is recommended to use a stereo or 5.1 sound card in order to control multiple loudspeakers. The quality of the sound card can affect the intensity dynamic of the measurement, without invalidating the measurement over the usable intensity range.

### Screen

A “full HD” screen of 1920 x 1080 pixels is recommended for optimal working conditions ergonomics. A minimum horizontal resolution of 1280 px is required.

### Connectivity requirements related with Noah software (HIMSA)

To benefit from all the audyx features, compatible versions of Noah are:

Noah 4.5.x or more recent versions to use Noah Mobile functions.

Noah 4.2.x or more recent versions to use the audyx module for Noah.

## Configuration steps

1. Confirm that the loudspeakers are connected from the audio configuration panel of the operating system.
2. Adjust computer settings
  - a. Disable signal processing systems of the sound card.
  - b. Adjust the volume of the operating system to maximum level.
3. Create an Audyx user account
  - a. Center created and invitation email sent by Audyx support.
  - b. Accept the invitation in order to connect with the created center.
  - c. Create the user using first and last name, and password.
  - d. Accept the terms and conditions of use.
4. Cabin calibration
  - a. Connect and position the microphone at the position occupied by the patient during the hearing test.
  - b. Sound levels emitted by the loudspeakers in the cabin calibrated by Audyx.
5. Disable deletion of cookies in Google Chrome and any other software (C cleaner, anti-virus, etc.)
6. Download and install the Audyx module for Noah from the support page

## Connection to the platform audyx

### Access

To access your audyx account, please log on with your username and associated password. Your username corresponds to the email address given during your registration with audyx. You can find it by looking at the platform invitation email in your mailbox.

If you wish to change your username, please contact audyx support.

If you forget your password, click the link [Forgot password?](#) You will receive an email enabling you to set a new one.

If you are not yet registered, contact audyx support or your center administrator in order to obtain an invitation to access the platform.

### Security



Do not disclose your password to anyone else and do not save your password on a workstation accessible to other users.

After five erroneous connection attempts, your account will be blocked and a notification email will be sent to your registration email address.

Once authenticated, your connection will be valid for a duration of eight hours. You will be disconnected after a period of inactivity longer than one hour.

# Page d'inscription

Cette page vous permet de vous inscrire à la plate-forme audyx après réception d'une invitation par l'administrateur de votre centre ou par le [support audyx](#). Si votre invitation a expiré, vous devez vous faire réinviter.

## Inscription

Pour vous inscrire, veuillez remplir tous les champs obligatoires indiqués par un astérisque rouge.

## Identifiant

- Votre identifiant correspond à l'adresse mail de réception de l'invitation audyx. Celui-ci ne peut être modifié. Si vous souhaitez changer d'identifiant, veuillez contacter le [support audyx](#).
- Si vous disposez déjà d'un identifiant sur la plate-forme audyx, utilisez-le sur tous vos centres. Assurez-vous de vous faire inviter sur votre identifiant existant plutôt que de créer un nouveau compte utilisateur.

## Sécurité

- Assurez-vous que les règles précisées pour la définition de votre mot de passe soient respectées.
- Votre mot de passe et votre identifiant vous seront systématiquement demandés pour accéder à la plate-forme. Mémorisez-les et ne les sauvegardez pas si votre poste est accessible par d'autres personnes.
- Afin de préserver la fiabilité et la traçabilité de vos données, veuillez ne pas divulguer votre mot de passe.
- Pour votre sécurité, assurez-vous de l'installation et de l'efficacité d'un système anti-virus efficace et d'un verrouillage d'écran automatique.

## Conditions Générales d'Utilisation (CGU)

Afin de valider votre inscription, vous devez accepter les [Conditions Générales d'Utilisation](#) que vous nous invitons à lire.

## Exigences du logiciel audyx

Pour une bonne utilisation du logiciel audyx, votre poste de travail doit remplir les conditions suivantes :

- Un écran "Full HD" de 1920 x 1080 px est conseillé pour une ergonomie optimale. Une résolution minimale de 1280 px de large est nécessaire.



- Google Chrome avec mise à jour automatique (activée par défaut). Audyx utilise des fonctions audio avancées des standards de l'Internet et n'est validé que sur le navigateur Google Chrome. La page d'inscription est fonctionnelle sur tous les navigateurs pour faciliter l'inscription depuis le mail d'invitation.
- Noah 4.5.x ou plus récent pour utiliser les fonctions Noah Mobile.
- Noah 4.2.x ou plus récent pour utiliser le module audyx pour Noah.
- Microsoft Windows 7 ou plus récent ou tout autre système d'exploitation supporté par Google Chrome y compris MacOS 10,6 et plus récent.
- Une connectivité Internet minimale de 2 Mbit/sec.

## Configuration audio

Pour effectuer des tests audiométriques en champ libre votre poste de travail doit être connecté à 5 ou 2 haut-parleurs et doit être calibré à l'aide d'un microphone numérique calibré. Pour recevoir les instructions de configuration audio et pour recevoir un microphone digital calibré en dépôt, contactez le [Support audyx](#).

# Registration page

This page enables you to register with the audyx platform after receipt of an invitation from your center administrator or from [audyx support](#). If your invitation has expired, you must arrange to be re-invited.

## Registration

To register, please complete all the mandatory fields indicated by a red asterisk.

## Username

- Your username corresponds to the email address appearing on the audyx invitation. The latter may not be modified. If you wish to change your username, please contact [audyx support](#).
- If you already have a username on the audyx platform, use it in all your centers. Make sure you are invited via your existing username rather than creating a new user account.

## Security

- Make sure that the rules specified for the definition of your password are respected.
- Your username and password will be systematically requested to access the platform. Please memorize them and do not save them in a workstation accessible by other people.
- In order to preserve the reliability and traceability of your data, please do not disclose your password.
- For your security, please ensure the installation of an effective anti-virus software and automatic screen locking.

## General Conditions of Use (CCU)

In order to validate your registration, you must accept the [General Conditions of Use](#), which we ask you to read.

## System Requirements for running audyx

For effective use of the audyx software, your workstation must fulfil the following conditions:

- A “full HD” screen of 1920 x 1080 pixels is recommended for optimal working conditions ergonomics. A minimum horizontal resolution of 1280 px is required.



- Google Chrome with automatic updates (activated by default). Audyx uses advanced internet-standard audio functions and functions only with the Google Chrome browser. The registration page is operational on all browsers to facilitate registration from the invitation email.
- Noah 4.5.x or more recent versions to use Noah Mobile functions.
- Noah 4.2.x or more recent versions to use the audyx module for Noah.
- Microsoft Windows 7 or more recent versions, or any other operating system supported by Google Chrome including MacOS 10.6 and more recent versions.
- Minimum internet connectivity speed of 2 Mbit/sec.

## Audio configuration

To carry out audiometric tests in free fields, your workstation must be connected to 2 or 5 speakers and must be calibrated using a calibrated digital microphone. To receive the instructions for audio configuration and to receive a calibrated digital microphone on loan, contact [audyx Support](#).



# Page de Connexion

Cette page vous permet de vous connecter à la plateforme audyx.

- Pour accéder à votre compte audyx, veuillez vous connecter en indiquant l'identifiant et le mot de passe associé.
- Votre identifiant correspond à l'adresse mail indiquée lors de votre inscription à audyx. Vous pouvez le retrouver en consultant le mail d'invitation à la plateforme reçu dans votre boîte de messagerie.
- Si vous voulez changer votre identifiant, contactez le [support audyx](#).
- En cas d'oubli de votre mot de passe, cliquez sur le lien [Mot de Passe oublié ?](#). Vous recevrez un mail vous permettant de le définir à nouveau.
- Si vous n'êtes pas encore inscrit, contactez le [support audyx](#) ou votre administrateur de centre afin d'obtenir une invitation pour rejoindre la plateforme.

## Sécurité

- Veillez à ne pas divulguer votre mot de passe à autrui et à ne pas mémoriser votre mot de passe sur un poste accessible à d'autres utilisateurs.
- Au delà de cinq tentatives de connexion erronées, votre compte se bloquera et un mail de signalement vous sera envoyé à l'adresse mail d'inscription.
- Une fois authentifiée, votre connexion sera valide pour une durée de huit heures. Vous serez ensuite déconnecté après une inactivité supérieure à une heure.

## Liens Juridiques

- Pour revoir les Conditions Générales d'Utilisation que vous avez approuvées lors de votre inscription, cliquez [ici](#).
- Vous pouvez également retrouver les Mentions Légales de l'application audyx [ici](#).

## Exigences du logiciel audyx

Pour une bonne utilisation du logiciel audyx, votre poste de travail doit remplir les conditions suivantes:

- Un écran "full HD" de 1920 x 1080 px est conseillé pour une ergonomie optimale. Une résolution minimale de 1280 px de large est nécessaire.
- Google Chrome avec la mise à jour automatique (activée par défaut). audyx utilise des fonctions audio avancées des standard Web et n'est valide que sur Google Chrome. La page d'inscription est fonctionnelle sur tous les navigateurs pour faciliter l'inscription depuis le mail d'invitation.
- Noah 4.5.x ou plus récent pour utiliser les fonctions Noah Mobile
- Noah 4.2.x ou plus récent pour utiliser le module audyx pour Noah
- Microsoft Windows 7 ou plus récent ou tout autre système d'exploitation supporte par Google Chrome y compris MacOS 10,6 et plus récents,
- Une collectivité internet d'au moins 2Mbit/secondes



## Configuration audio

Pour effectuer des tests audiométriques en champs libre votre poste de travail doit être connecté à 5 ou 2 hauts parleurs et doit être calibré à l'aide d'un microphone digital calibré. Pour recevoir les instructions de configuration audio et pour recevoir un microphone digital calibré en dépôt, contacter le [Support audyx](#).

# Connection Page

This page enables you to connect to the audyx platform.

- To access your audyx account, please log on with your username and associated password.
- Your username corresponds to the email address given during your registration with audyx. You can find it by looking at the platform invitation email in your mailbox.
- If you wish to change your username, please contact [audyx support](#).
- If you forget your password, click the link [Forgot password?](#) You will receive an email enabling you to set a new one.
- If you are not yet registered, contact [audyx support](#) or your center administrator in order to obtain an invitation to access the platform.

## Security

- Do not disclose your password to anyone else and do not save your password on a workstation accessible to other users.
- After five erroneous connection attempts, your account will be blocked and a notification email will be sent to your registration email address.
- Once authenticated, your connection will be valid for a duration of eight hours. You will be disconnected after a period of inactivity longer than one hour.

## Legal Links

- To review the General Conditions of Use that you approved during your registration, click [here](#).
- You can also find the Legal Notice of the audyx application [here](#).

## Requirements of the audyx software

For effective use of the audyx software, your workstation must fulfil the following conditions

- A “full HD” screen of 1920 x 1080 pixels is recommended for optimal work conditions. A minimum horizontal resolution of 1280 px is required.
- Google Chrome with automatic updates (activated by default). Audyx uses advanced internet-standard audio functions and functions only with Google Chrome. The registration page is operational on all browsers to facilitate registration from the invitation email.
- Noah 4.5.x or more recent versions to use Noah Mobile functions.
- Noah 4.2.x or more recent versions to use the audyx module for Noah.
- Microsoft Windows 7 or more recent versions, or any other operating system supported by Google Chrome including MacOS 10.6 and more recent versions.
- An internet connectivity speed of at least 2Mbit/seconds



## Audio configuration

To carry out audiometric tests in free fields, your workstation must be connected to 5 or 2 speakers and must be calibrated using a calibrated digital microphone. To receive the instructions for audio configuration and to receive a calibrated digital microphone on loan, contact [audyx Support](#).