

Ecosystem infrastructure for smart and personalised inclusion   
and PROSPERITY for ALL stakeholders

Runtime Environment Final Prototype

ANNEX III: Runtime Environment Setup Manual

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# Executive Summary

[The executive summary summarizes the main contents and results of the deliverable.]

# Introduction

## Task goal

The main goal of the task **T203.3 Runtime Environment**, is to achieve a scalable and extensible integration of the three separate platforms (AsTeRICS, URC, MyUI) in order to produce a multiplatform environment which will "harvest“ the benefits of each platform. To fully understand the added value of the resulting solution, a basic knowledge of each platform is required. A brief description of AsTeRICS, URC and MyUI can be found below:

* AsTeRICS: Assistive Technology Rapid Integration & Construction Set

The “Assistive Technology Rapid Integration and Construction Set” (AsTeRICS) offers a flexible framework for Assistive Technologies (AT), which can be adapted to the motor abilities of users.

* URC: Universal Remote Console

The overall purpose of the URC framework (standardized in ISO/IEC 24752) is to provide a mechanism, enabling users to control any target with any controller devices fitting best the user’s needs

* MyUI: Framework for model-based adaptive user interfaces

MyUI provides an environment to render and adapt a user interface to the user context during runtime.

Furthermore, the GPII framework was used as the basic infrastructure for better and centralized coordination of the three platforms through the identification of the users via NFC (Near Field Communication) technology and adaptation to their needs and preferences.

More detailed descriptions of the three platforms can be found at <D203.1 DELIVERABLE DOCUMENT>.

# Setup

## Prerequisites

1. Windows OS
2. 32-bit Java SE Development Kit (7 or above)
3. Web camera
4. Web browser (Chrome Version 45 or above for MyUI)

## Software installation

To test or use the complete solution, the following platforms should be installed and configured appropriately:

1. AsTeRICS
2. URC
3. MyUI
4. GPII

The remaining part of this section contains detailed steps of how to setup and configure the platforms above.

Before going through the setup instructions, it is required to:

* download the content from this link: <https://github.com/mariokom/RuntimeEnvironment>
* extract the contents of the folder to a preferred location
* **Important:** let <**REFolderPath**> be this location, it will be needed later on

### Install and configure AsTeRICS

Installation & Configuration:

No further actions required. The AsTeRICS files are precompiled and preconfigured.

Configuration regarding AsTeRICS – UCH communication (to run on different machines)

By default, AsTeRICS is configured to communicate with UCH on the same machine (localhost). If there is a need for UCH to run on a different machine, please follow the next steps:

To run UCH on a different machine than AsTeRICS, we need to change the ‘Head-ColoredLightBulb.acs’ model via the AsTeRICS Configuration Suite (ACS) tool. To do so, we should navigate to ‘<**REFolderPath**>/AsTeRICS’ folder and run the ‘start\_ARE.bat’ file. Then open the ACS folder and run the ‘ACS.exe’ file. Wait for both programs to start and follow the steps below:

1. Click on ‘Connect To ARE’ button in the ACS window.
2. Click on ‘Download Component Collection’ button and wait until a confirmation window appears which declares that a new component collection was installed.
3. Click on the ‘Load Model from Storage’ button.
4. In the window that will appear, locate and click on the ‘Head-ColoredLightBulb.acs’ model. Click the ok button.
5. You should now see the components contained in the model. Locate the UchCLB component (it should be on the top-right corner) and select it.
6. In the right panel, you should see the configurable parameters of this component. Change the ‘ip’ parameter to the ip address of the machine where the URC will be running on.
7. Click on the ‘Store Model on ARE’ button. Click OK.
8. Close ACS and ARE.

Image showing the steps needed to change the IP address of the UCH component in the AsTeRICS model with ACS user interface.
This image carries the same information as the written steps above.

Figure 1: Steps to change UCH component IP address in AsTeRICS

Testing:

You can test that AsTeRICS was installed successfully using a web client. Follow the steps below to do so:

1. Run the ‘start\_ARE.bat’ file located in the ‘<**REFolderPath**>/AsTeRICS’ folder.
2. Open a browser and visit: ‘http://localhost:8085/clientExample/client.html’.
3. In the ‘ARE Runtime Handling’ section, type ‘HeadSound.acs’ in the text field next to ‘Autorun’ button. Click the ‘Autorun’ button.
4. Now we should notice that the ARE GUI was changed and we are also able to produce sounds with head movements!
5. Stop the model by clicking on the ‘Stop model’ button, in the ‘Model State’ section
6. Close the ARE.

![Image showing the steps needed to test AsTeRICS installation using ARE web client.
This images does not hold any more information than the steps above.](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1rb21vZDA1AAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNDEAAJKSAAIAAAADNDEAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 2: Steps to test AsTeRICS installation

### Install and configure URC

Installation:

Installation steps…

Configuration:

Configuration steps…

Testing:

Testing steps…

### Install and configure MyUI

Installation:

Copy the folder ‘<**REFolderPath**>/MyUI’ into a subdirectory served by your UCH installation: ‘<**REFolderPath**>/UCH/bin/Webclient/’.

Configuration:

If you did not change the configuration of AsTeRICS, MyUI is already configured to work with it. If your ARE is running at a URI different from ‘http://localhost:8085/’ you need to change the value of the areURI variable in line 7 of ‘<**REFolderPath**>/MyUI/src/myui-app.js’ accordingly.

Testing:

**Important:** To test MyUI, the URC system needs to be up and running (Section 2.2.2).

Open an instance of the Google Chrome web browser (Version 45 or above) to ‘<http://localhost:8080/UCH/Webclient/myui/index.html>’ or the appropriate location if you used another target directory in the installation step. This should result in a user interface similar to the following figure.

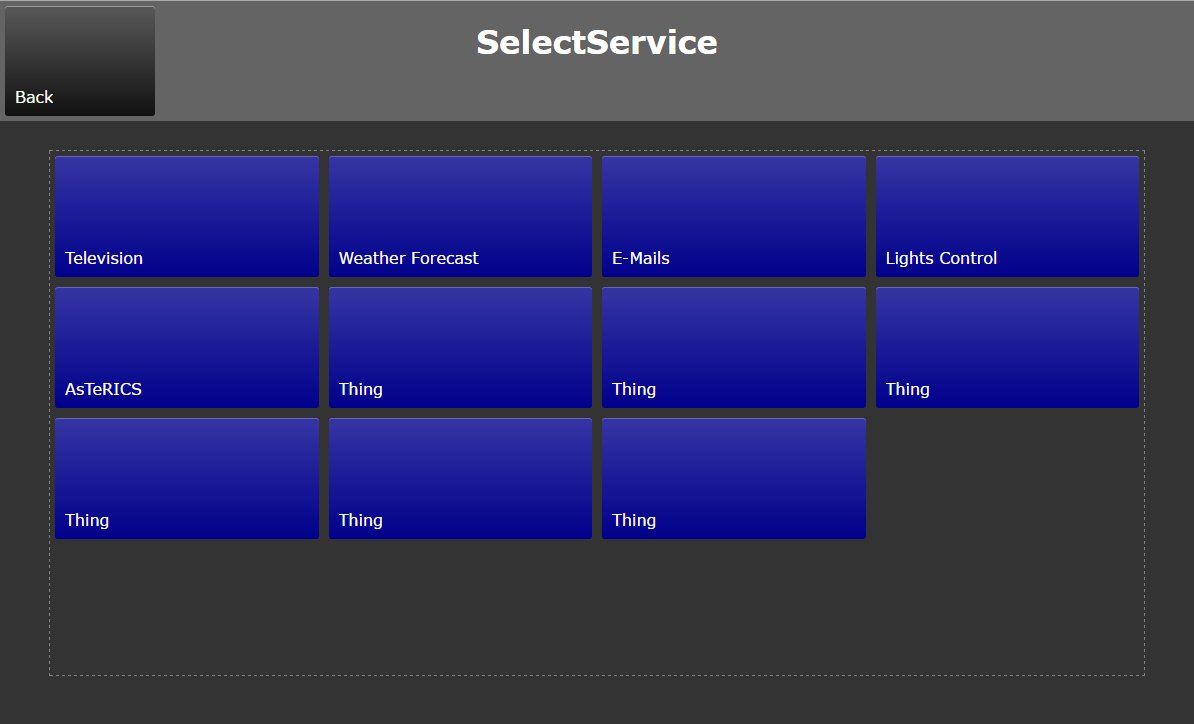


Figure 3: The user interface presented by the MyUI Runtime

### Install and configure GPII

Installation:

To install GPII use the installer to be found here: ‘<**REFolderPath**>/GPII/GPII.160119.044327.msi’

Configuration:

To configure the GPII framework for the T203.3 task, you need to change specific files in the location where the GPII was installed. Let <**GPIIRootFolder**> be the path of the root folder where GPII was installed (the default installation path should be ‘C:\Program Files (x86)\GPII’). See the list below for the required changes:

1. Before copying the file for this step, it is required to make some modification to its contents. We can either make these modifications manually or use the ‘auto-conf.bat’ file to automate the modification procedure. Note that the ‘auto-conf.bat’ will work for users running windows 7 or above.

**Automatic modifications approach**

Run the ‘<**REFolderPath**>/GPII/auto-conf.bat’ file. No further actions are required.

**Manual modifications approach**

Copy the actual Runtime Environment root folder path to a document (eg notepad).

Replace single backslashes with double backslashes. For example: C:\path\to\folder 🡪 C:\\path\\to\\folder

Go to <**REFolderPath**>/GPII/win32.json

Replace the ‘<rootFolderPath>’ occurrences in this file with the edited path

After the modifications are done, replace the file located in:

**<GPIIRootFolder>**/node\_modules/universal/testData/solutions/win32.json

with the file located in:

**<REFolderPath>**/GPII/win32.json

1. Replace the file located in:

<**GPIIRootFolder**>/node\_modules/universal/testData/deviceReporter/installedSolutions.json

with the file located in:

<**REFolderPath**>/GPII/installedSolutions.json

1. Replace the file located in:

<**GPIIRootFolder**>/node\_modules/universal/testData/ontologies/ISO24751-flat.json

with the file located in:

<**REFolderPath**>/GPII/ISO24751-flat.json

1. Copy these files:

<**REFolderPath**>/GPII/nicholas.json

<**REFolderPath**>/GPII/mr\_moroz.json

<**REFolderPath**>/GPII/ms\_moroz.json

and paste them to the folder:

<**GPIIRootFolder**>/node\_modules/universal/testData/preferences

Testing:

To test that everything was installed and configured correctly, you can execute the following steps:

1. Start GPII by executing the file located at <**GPIIRootFolder**>/start.cmd.
2. Notify GPII that a specific persona was logged in by visiting this URI in the browser:

‘localhost:8081/user/mary/login’

1. The on screen keyboard program should appear on the screen.
2. Close the program by logging out the persona, by visiting the URI:

‘localhost:8081/user/mary/logout’

1. Close GPII.

NFC Configuration:

To use NFC identification for the personas of the scenario, an NFC reader and three NFC tags are required. For our purposes we have used and ACR122U NFC Reader for PC and NFC tags operating in the standard radio frequency of 13.56 MHz.

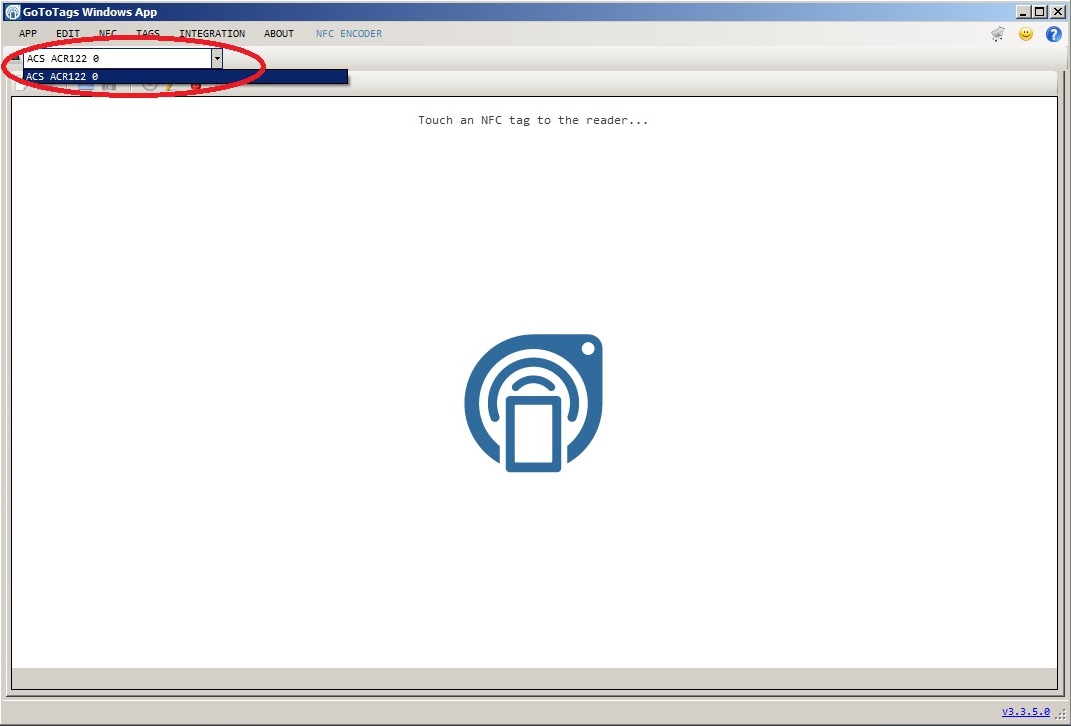


Figure 4: NFC reader and NFC tag

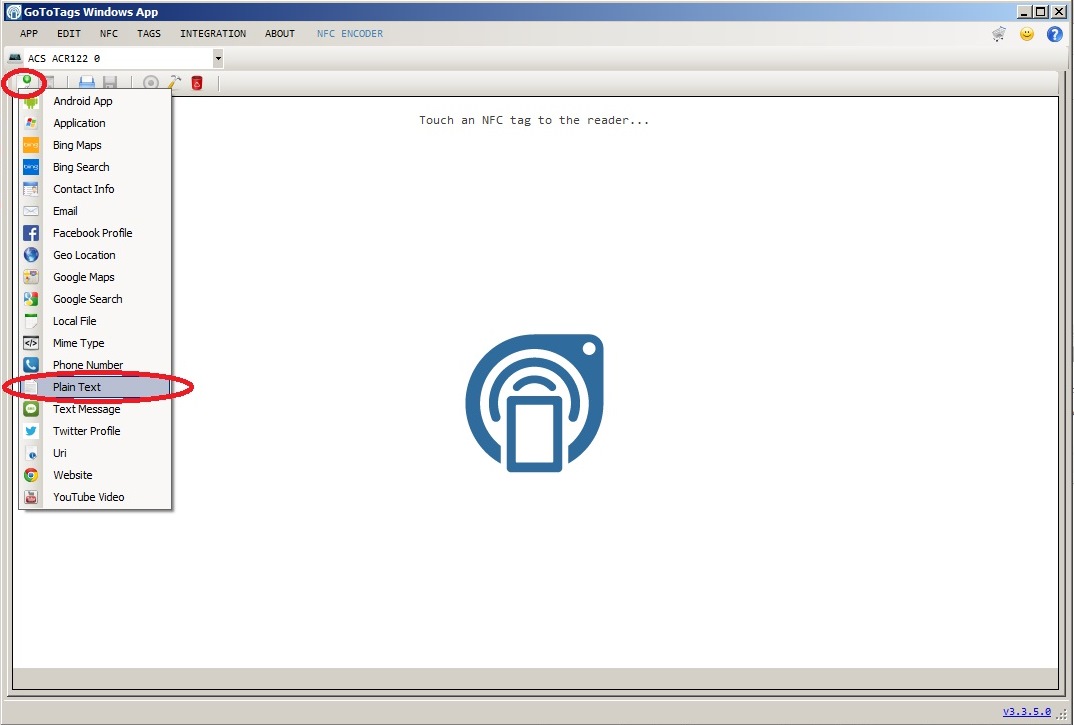
1. Download and install GoToTags windows application (Download link: <https://gototags.com/products/windows-app/>)

Any other program capable of controlling an NFC reader and writing to an NFC tags will do.

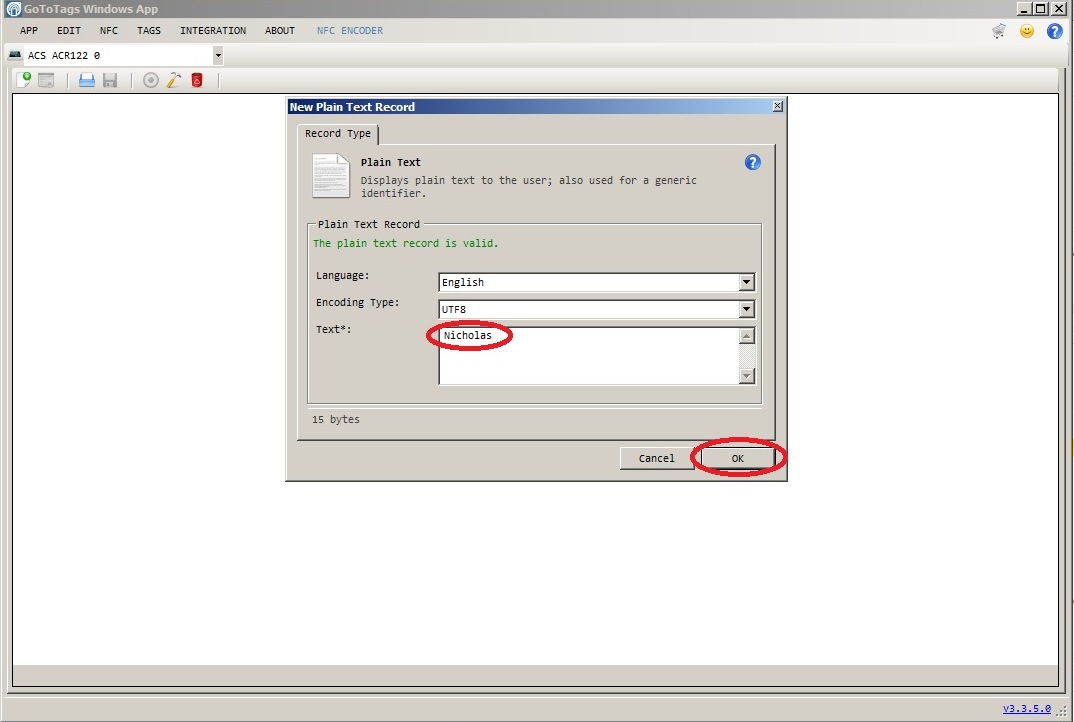
1. Plug-in the NFC reader device. Give the operating system a few minutes to identify the device. In case the system is unable to automatically identify and download the drivers, please find them in: “<**REFolderPath**>/GPII/NFCDrivers”
2. Open GoToTags application.
3. Select the NFC reader



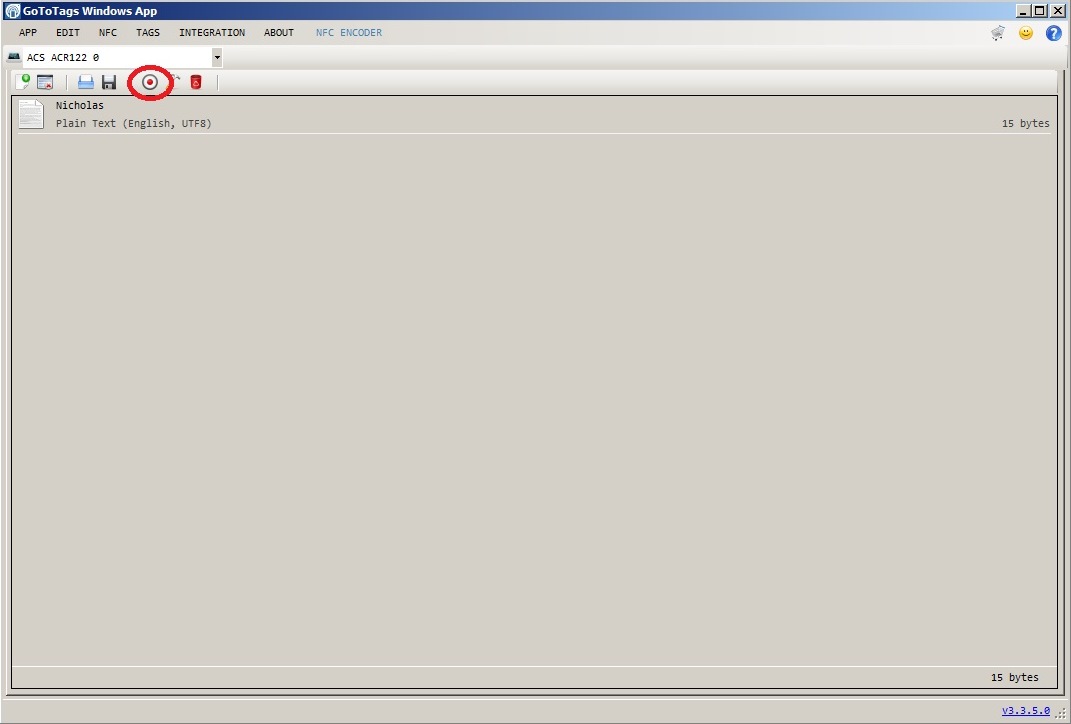
1. Click on the ‘Add new record’ button (top left corner) and select the ‘Plain Text’ type

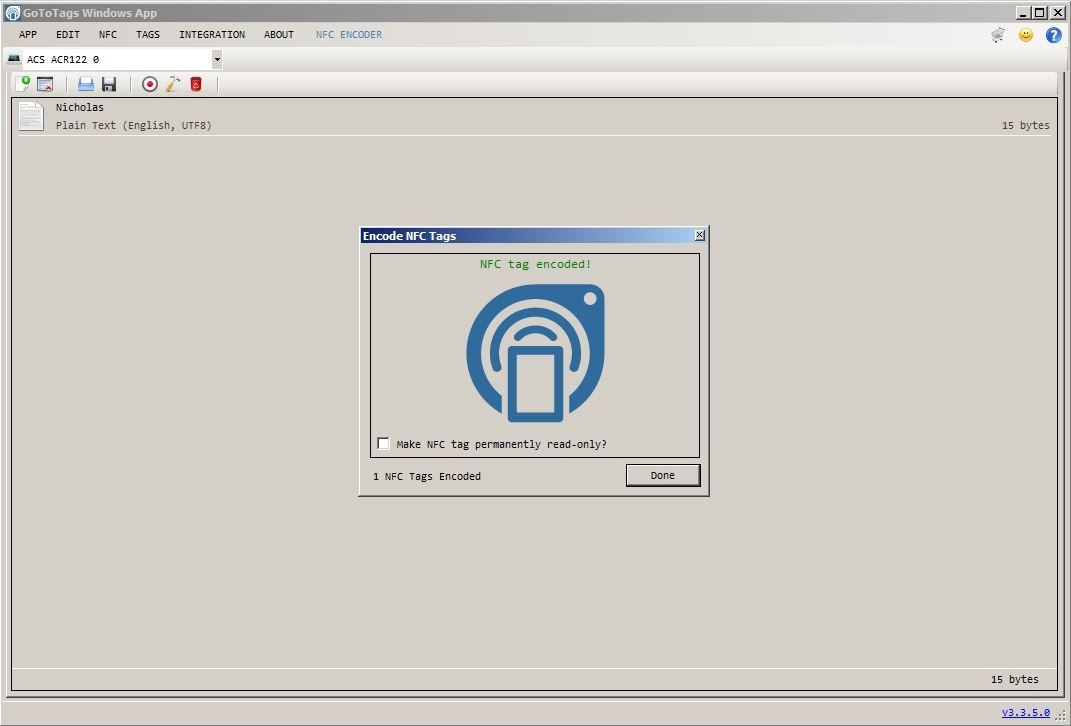


1. A new window should appear. In the ‘Text’ field, write the name ‘Nicholas’ (the name of one of the three personas we are going to use). Press the OK button.



1. Click on the ‘Encode NFC tags’ button.



1. The application is now waiting for an NFC tag to write on. Move an NFC tag near the NFC reader. Hold it there for some seconds, until you hear the sound that indicates that the write procedure was completed.
2. Repeat steps 5 to 9 two more times, replacing the name ‘Nicholas’ with the name ‘Mr\_Moroz’ and ‘Ms\_Moroz’.
3. Close GoToTags.

# Test the integrated system

## ARE → MyUI → URC

To test the integrated runtime environment, follow the steps below:

1. Start GPII.
2. If you have configured NFC:
   * Connect the NFC reader device to the PC
   * Locate and run ‘Start RFID listener’ file (installed with GPII)
   * Move an NFC tag near the NFC reader

If you have not configured NFC:

* + Open a web browser
  + Visit the url <http://localhost:8081/user/ms_moroz/login>

1. The GPII will automatically start the three applications (AsTeRICS, MyUI, UCH).

* AsTeRICS should take control of the mouse.
* MyUI should appear on your screen, in chrome browser.
* UCH should run on the background, ready to interact with AsTeRICS or MyUI and control the targeted devices or applications (in this case the coloured light bulb).

1. Go to the browser (MyUI) and click on the ‘Lights Control’ button and then on the ‘ColouredLightBulb’.
2. In the appeared interface there are multiple buttons which can change the colour of the lamp.

* If you have connected the actual coloured light bulb (H/W), you should see the light changes in colour.
* If not, you can observe the changes in the emulator by visiting the url: <http://localhost:8080/UCH/Webclient/index.html> and selecting the coloured light bulb from the list.

## MyUI → ARE → URC

1. Start GPII.
2. If you have configured NFC:
   * Connect the NFC reader device to the PC
   * Locate and run ‘Start RFID listener’ file (installed with GPII)
   * Move an NFC tag near the NFC reader

If you have not configured NFC:

* + Open a web browser
  + Visit the url <http://localhost:8081/user/ms_moroz/login>

1. The GPII will automatically start the three applications (AsTeRICS, MyUI, UCH).

* AsTeRICS should take control of the mouse.
* MyUI should appear on your screen, in chrome browser.
* UCH should run on the background, ready to interact with AsTeRICS or MyUI and control the targeted devices or applications (in this case the coloured light bulb).

1. Go to the browser (MyUI) and click on <AsTeRICSEnablerButton>
2. The AsTeRICS ARE is expected to initiate the Head-ColouredLightBuld AsTeRICS model which can change the colour of the lamp via head movement.

* If you have connected the actual coloured light bulb (H/W), you should see the light changes in colour when moving your head.
* If not, you can observe the changes in the emulator by visiting the url: <http://localhost:8080/UCH/Webclient/index.html> and selecting the coloured light bulb from the list.

# References

1. URC Consortium: Universal Control Hub 1.0 (ATR), Online: <http://www.openurc.org/TR/uch1.0-20131217/>