

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

This document servers as the Integrated Runtime Environment Setup and Installation Manual (related to D203.1, Task 203.3, WP203). The manual describes thoroughly any prerequisites for installation, as well as the S/W and H/W installation steps needed to successfully install and configure the Integrated Runtime Environment. It also provides a few examples to ensure proper installation.

# Introduction

The main goal of the task **T203.3 Runtime Environment Prototype**, is to achieve a scalable and extensible integration of the three platforms (AsTeRICS ARE, 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 in D203.1 Runtime Environment Final Prototype.

# Prerequisites

1. Windows OS
2. 32-bit Java SE Development Kit (8 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

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 may be needed later on

For a **Quickstart Guide** please see section 3.

Section 4 includes more detailed steps on how to setup and configure the Integrated Runtime Environment.

# Quickstart Guide

* **Step 1:** 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 see Section 4, otherwise no further actions are required: the AsTeRICS files are precompiled and preconfigured.
* **Step 2:** Install GPII by using the installer to be found here: ‘<**REFolderPath**>/GPII/GPII.160119.044327.msi’
* **Step 3:** Run (double click) the ‘<**REFolderPath**>/auto-conf.bat’ file with administrator privileges (right-click on the file and click on ‘Run as Administrator’ option). The execution of this file will automatically clone MyUI in order to be hosted by the UCH server and will configure GPII framework. The execution window will prompt the user to enter the GPII installation folder path (the default GPII installation folder path will be similar or identical to ‘C:\Program Files (x86)\GPII’). Note that the ‘<**REFolderPath**>/auto-conf.bat’ file will work for users running windows 7 or above.
* To test that everything was installed and configured correctly, you can do the following:

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/nicholas/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.

1. You may proceed by following Step 4 of the Head-ColouredLightBulb and WoehlkeWebsteckdose electricity outlet demo described in Sections 5.1 and 5.2
2. Close the program by logging out the persona by visiting the URI:

‘localhost:8081/user/nicholas/logout’

1. Close GPII.

# Setup

## 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 the ‘Connect To ARE’ button in the ACS window.
2. Click the ‘Download Component Collection’ button and wait until a confirmation window appears which declares that a new component collection was installed.
3. Click the ‘Load Model from Storage’ button.
4. In the window that will appear, locate and click 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:

No further actions required. The URC is precompiled and preconfigured. It can be deployed anywhere in your network. A Java Runtime environment 1.8. is required to run the UCH.

Configuration:

The UCH is preconfigured to run all related use cases. Still, if it is necessary to change some settings (e.g. the port number), open the config.xml file that is located in the bin folder of your UCH installation: ‘<**REFolderPath**>/UCH’. If it is not there, start the UCH by running the ’startUCH.bat’ file in ‘<**REFolderPath**>/UCH’. By doing so, a new standard configuration file will be generated.

Testing:

To test the URC server, a simulation page was created that when accessed it depicts the values of the URC remote sensors/actuators. To run the Philips HUE Coloured Light Bulb example:

1. Go to ‘<**REFolderPath**>/UCH’ folder and run the ‘startUCH.bat’ file
2. Open a browser and go to: <http://localhost:8080/UCH/Webclient/index.html>
3. Click on the ColouredLightBulb link
4. The appeared UI is used to display the real time values of the URC remote actuator (the Philips HUE light)

In case the browser and the UCH are located on two different machines, we need to replace ‘localhost’ with the IP address of the UCH. If bonjour is installed, we can also replace ‘localhost’ by ‘uch.local’.

In order to check all connected targets, point your browser to <http://localhost:8080/UCH> and click on ‘More information on the UCH software (including help for more complex configurations’. Then, click on “Webclient index:” we should now see a list with different connected targets. You can click on them to get a simple, tabular user interface to control them.

### Installation of Philips Hue

Installation:

UCH ships with all modules that are required to connect to a Philips Hue bridge:

1. Connect the Philips Hue bridge to your network and switch it on
2. Point your browser to http://localhost:8080/UCH/Webclient/index.html and select ‘Philips Hue Configuration Manager’
3. Click on ‘Discover new Philips Hue Bridge: we need to confirm the discovery process at the Hue Bridge by pushing the button on the top
4. New Philips Hue bulbs get visible at the Webclient Index Page at http://localhost:8080/UCH/Webclient/index.html

**Important:** this process is to be executed only the first time a new bridge is connected to the network. UCH stores all information in order to automatically connect to it in the future.

## Install and configure MyUI

**Note**:You can run (double click) the ‘<**REFolderPath**>/auto-conf.bat’ file to automatically clone MyUI and configure GPII (see chapter 3 – step 3). If ‘<**REFolderPath**>/auto-conf.bat’ file was executed, you can skip **MyUI installation chapter**.

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 have used another target directory in the installation step. This should result in a user interface similar to the following figure.

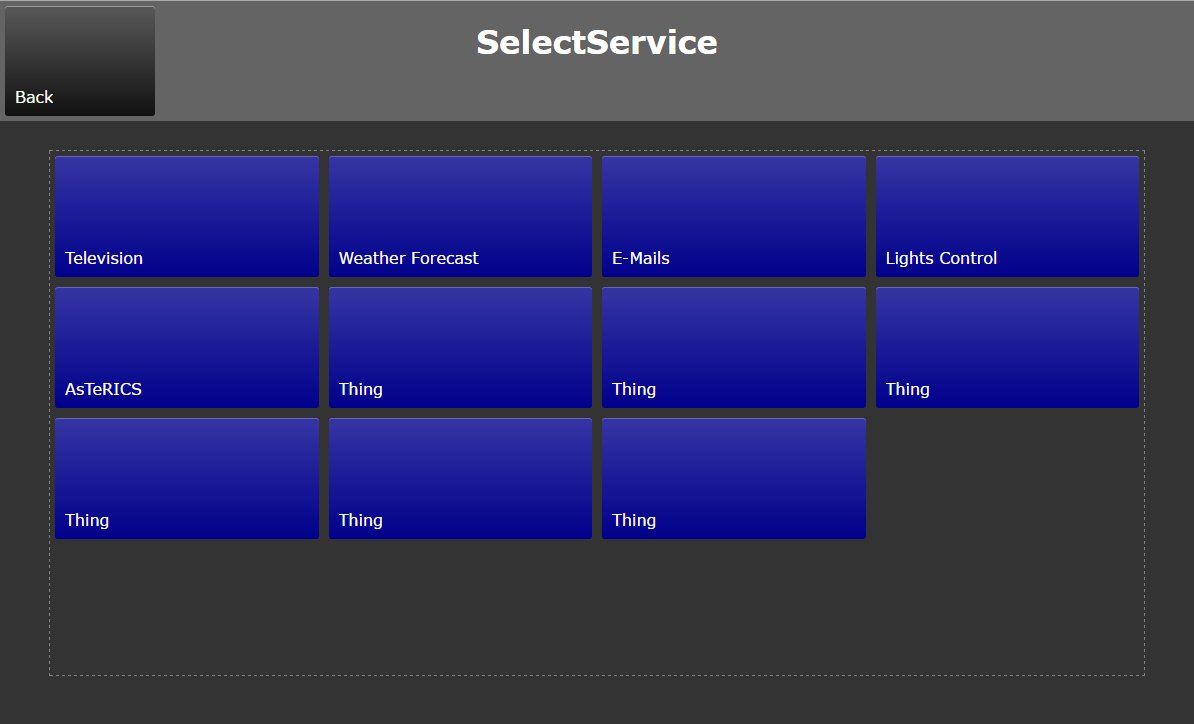


Figure 3: The user interface presented by the MyUI Runtime

## Install and configure GPII

**Note**:You can run (double click) the ‘<**REFolderPath**>/auto-conf.bat’ file to automatically clone MyUI and configure GPII (see chapter 3 – step 3). If ‘<**REFolderPath**>/auto-conf.bat’ file was executed, you can skip **GPII configuration chapter**.

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 below for the required changes:

1. Before copying the file for this step, it is required to make some modification to its contents:

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, 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.

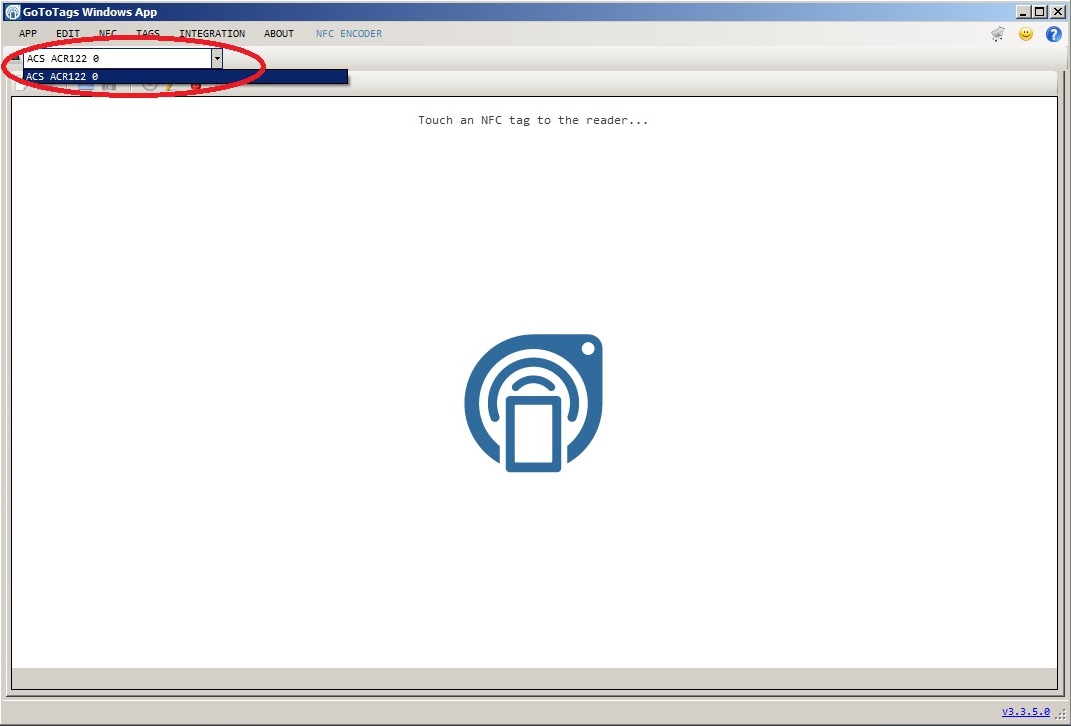


Figure 4: NFC reader and NFC tag

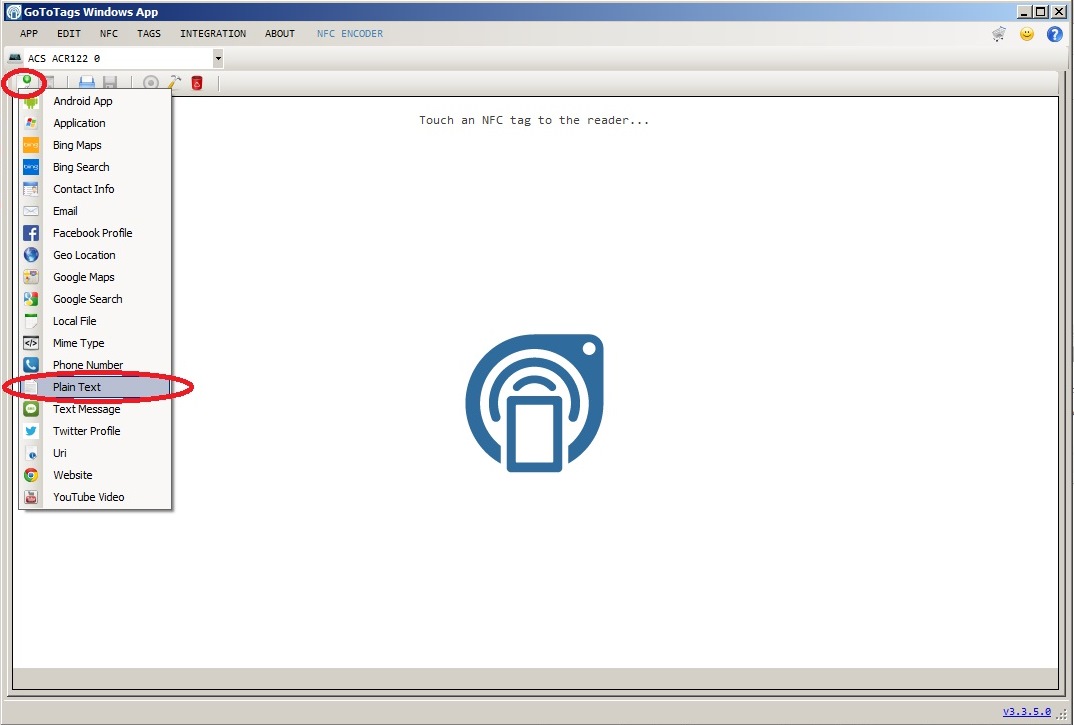
1. Download and install GoToTags windows application (Download link: <https://gototags.com/products/windows-app/>)

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

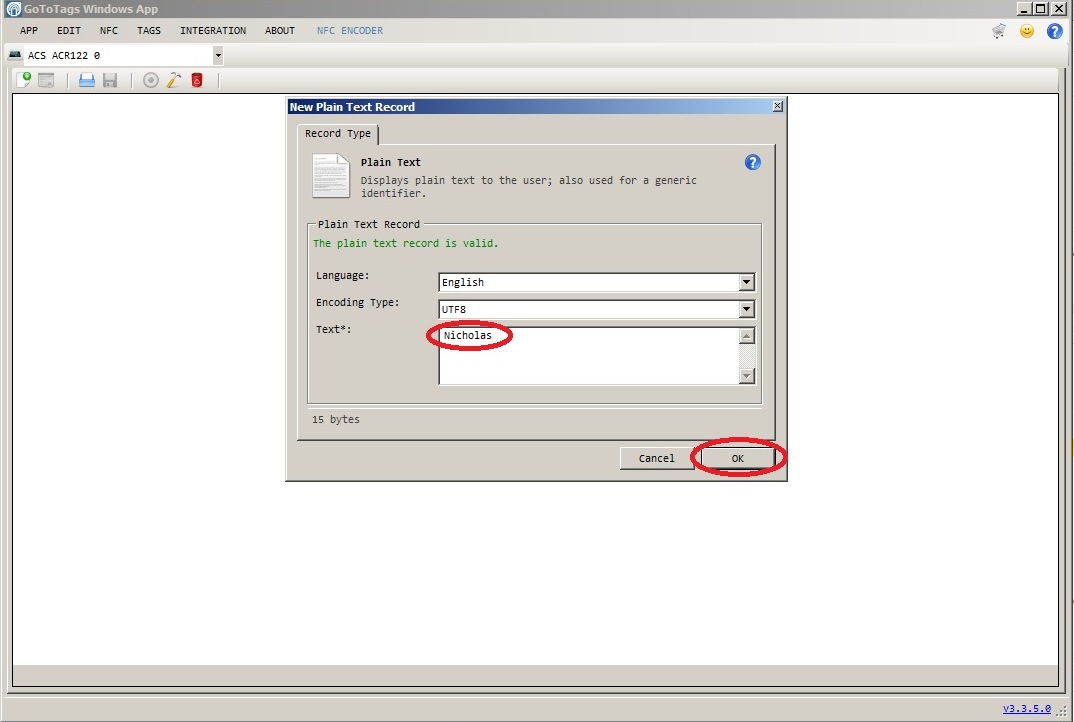
1. Plug-in the NFC reader device. Give the operating system a few minutes to identify the device. In case the system is unable to automatically identify and download the drivers, please find them in: “<**REFolderPath**>/GPII/NFCDrivers”
2. Open GoToTags application.
3. Select the NFC reader



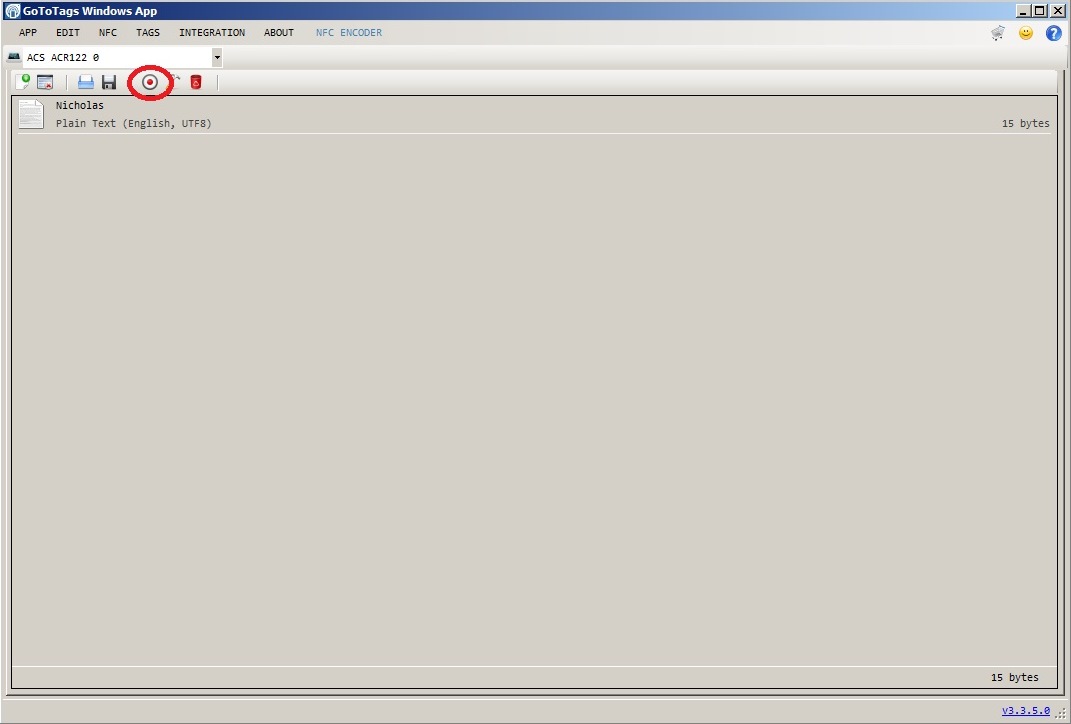
1. Click on the ‘Add new record’ button (top left corner) and select the ‘Plain Text’ type



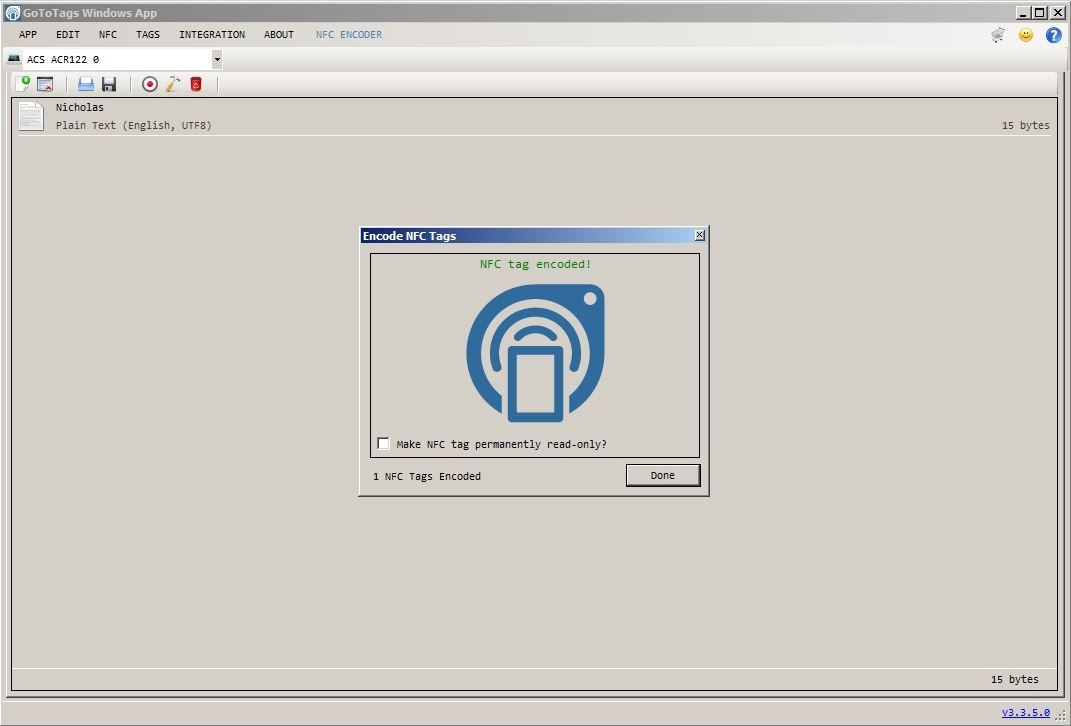
1. A new window should appear. In the ‘Text’ field, write the name ‘Nicholas’ (the name of one of the three personas we are going to use). Press the OK button.



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 a sound is heard that indicates that the “write” process was completed.



1. Repeat steps 5 to 9 two more times, replacing the name ‘Nicholas’ with the name ‘Mr\_Moroz’ and ‘Ms\_Moroz’.
2. 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.

1. **a. To run the Philips HUE Lights example:** Go to the browser (MyUI) and click on the ‘Lights Control’ button and then on the ‘ColouredLightBulb’. 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.

**b. To run the electricity outlet example:** Go to the browser (MyUI) and click on the ‘Switched Outlets’ button and then on the ‘WoehlkeWebsteckdose’. In the appeared interface there are 3 buttons which can switch on and off the URC electricity outlet sensor.

* If you have connected the actual WoehlkeWebsteckdose electricity outlet, you should see the outlet switching on and off.
* If not, you can observe the changes in the emulator by visiting the url: <http://localhost:8080/UCH/Webclient/index.html> and selecting the WoehlkeWebsteckdose.

## 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.

1. **a.** **To run the Philips HUE Lights example:** Go to the browser (MyUI), click on ’AsTeRICS’ button and select the Head-ColouredLightBulb model. The AsTeRICS ARE is expected to initiate the Head-ColouredLightBulb AsTeRICS model which can change the colour of the lamp via head movement. Keeping still for 4 seconds on a specific colour selects it, and AsTeRICS ARE takes control of the mouse again.

* 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. Figure 5 shows a simulation demo where head movements change the colour of the web page to the left that simulates the Philips HUE light, while the webpage on the right depicts URC remote server updates (webpage refresh from browser refresh-button is needed). The colour updates are initiated from the AsTeRICS Head-ColouredLightBulb model directly via head movements of the user (e.g. right head movements depict shades of red, while left head movements depict shades of blue).

**b. To run the electricity outlet example:** Go to the browser (MyUI), click on ’AsTeRICS’ button and select the Head-ElectricityOutlet model. The AsTeRICS ARE is expected to initiate the Head-ElectricityOutlet AsTeRICS model which can switch on and off the electricity outlet via mouth movement: mouth movement (opening) changes between “switch on” and “switch off”. Switch again to mouse control with head movements by turning your head to the right.

* If you have connected the actual WoehlkeWebsteckdose electricity outlet, you should see the outlet switching on and off.
* If not, you can observe the changes in the emulator by visiting the url: <http://localhost:8080/UCH/Webclient/index.html> and selecting the WoehlkeWebsteckdose.

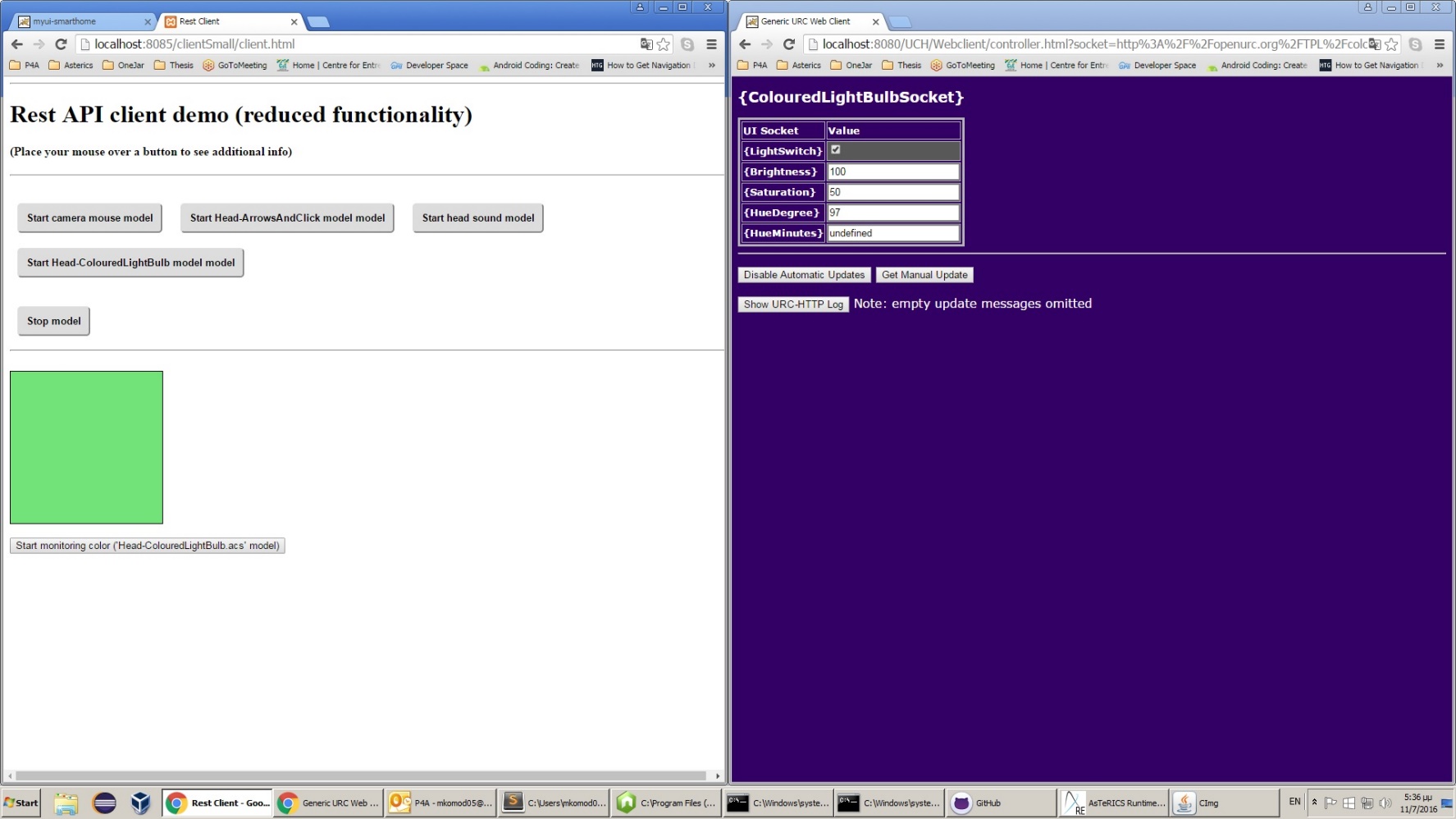
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Figure 5: Simulation for the Philips HUE Light Bulb