

Passport Reader Vue JS Sample User's Manual

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1. INTRODUCTION

This manual guides you through the mains steps on how to install and use AR Passport Reader Vue JS sample program.



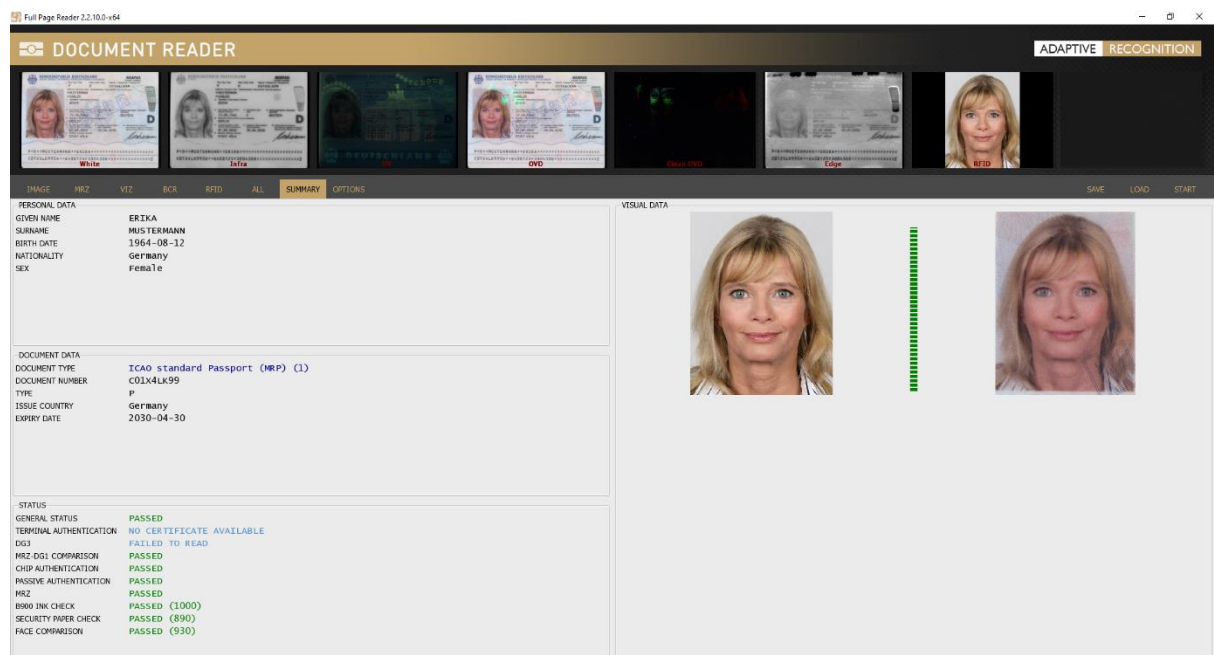
2. REQUIREMENTS

Vue Sample program requires the following software to be installed on your Windows 10 64bit PC:

1. Passport Reader software package pr-2.1.11. or later. For more information on its installation procedure, refer to the Osmond User's Manual.
2. pr_ws_proxy (detailed in later chapters)
3. Node.js framework for NDP (node package management for Windows OS) with related software

2.1. THE PASSPORT READER SOFTWARE PACKAGE

Follow the installation steps detailed in Osmond User's Manual to install pr-2.1.11-x64.msi. This is necessary to copy device drivers, libraries and utility programs to PC for your USB passport reader device. Upon successful installation of PR software package and OCR engine, use Full Page Reader App to verify device functionalities:



2.2. PR WS PROXY

The Passport Reader WebSocket proxy is designed to perform user authentication with the web server running on the Osmond N device or on local PC. Such authentication cannot be performed by the Vue AR app as cross-site scripting is blocked by contemporary browser applications.

The PR WS proxy includes a **readers.json** file to configure the connected passport reader scanners.

Sample settings for Osmond N device:

```
"n204107" : {                                     //device ID (custom)
  "hostname" : "https://n211720.domain.company.com:3000", //device hostname with port.
  "username" : "netapi_user",                       //username for NetAPI
  "password" : "netapi_password"                     //Password for NetAPI
}
```

Sample settings for USB Passport Reader device (e.g. Combo Smart):

```
"combosmart1198294" : {                         //device ID (custom)
  "hostname" : "https://127.0.0.1:8000",           //or "localhost" with port
  "username" : "netapi_user",                     //username for NetAPI
  "password" : "netapi_password"                   //Password for NetAPI
}
```

Port can be configured by the `server.listen()` function, in the last line of `pr-proxy-ws.js`.

2.2.1. Installation and starting the PR WS Proxy

1. Install Node.js: <https://nodejs.org/en/download/package-manager>
2. Install npm: <https://docs.npmjs.com/downloading-and-installing-node-js-and-npm>
3. Extract, install and run PR WS Proxy
 - 3.1 extract pr-ws-proxy directory
 - 3.2 cd pr-ws-proxy
 - 3.3 npm install
 - 3.4 run PR WS proxy: npm run serve

2.3. THE VUE-AR APP

The VUE-AR application is designed to demonstrate the main functions of the Passport Reader software, using Osmond N, or USB connected AR passport reader device.

When using the APP with USB device, the built-in web server of the Passport Reader system should be started using the PRDTool utility or Windows command line. Run the C:\Program Files\Adaptive Recognition\utils\PRDTool\PRDTool.exe (or its 32bit equivalent) then click **Settings** and browse to **NetAPI server settings**. Here, perform the following steps:

1. Specify **SSL cert file** and **SSL key file** paths for secure communication.
2. Create a user for NetAPI with “**User**” or “**Admin**” **Role** – simply type **Name** and **Password** then click **Insert**.
3. Click **Start server**.

The screenshot shows a 'Settings' window with a tabbed interface. The 'NetAPI server settings' tab is active. It contains the following fields and controls:

- Port:** A text box containing '8000'.
- RFID Cert. folder:** A text box with a browse button (three dots).
- External access:** A checked checkbox.
- SSL cert file:** A text box containing 'D:/device.crt' with a browse button.
- SSL key file:** A text box containing 'D:/device.key' with a browse button.
- Buttons:** 'Set auto start on' and 'Stop server'.
- Status:** 'Service is running'.
- User Creation:** Fields for 'Name', 'Password', and 'Role' (a dropdown menu currently showing 'User').
- User Table:** A table with columns 'Name', 'Entry ID', and 'Role'. It contains one entry: 'netapi_user' with 'qpif2sqGXqCnmWla' as the Entry ID and 'Admin' as the Role. To the right of the table are 'Insert' and 'Delete' buttons.
- Bottom Buttons:** 'Cancel' and 'Apply'.

Name	Entry ID	Role
netapi_user	qpif2sqGXqCnmWla	Admin

2.3.1. Installation and starting the VUE AR App

1. Install Node.js: <https://nodejs.org/en/download/package-manager>
2. Install npm: <https://docs.npmjs.com/downloading-and-installing-node-js-and-npm>
3. Extract, install and run VUE AR App
 - 3.1 extract vue-ar directory
 - 3.2 cd vue-ar
 - 3.3 npm install
 - 3.4 set NODE_OPTIONS=--openssl-legacy-provider (required every time before starting vue-ar)
 - 3.5 run vue-ar: npm run serve

After successful installation and starting the VUE AR App, the service is available on localhost:8080.

Supported node versions:

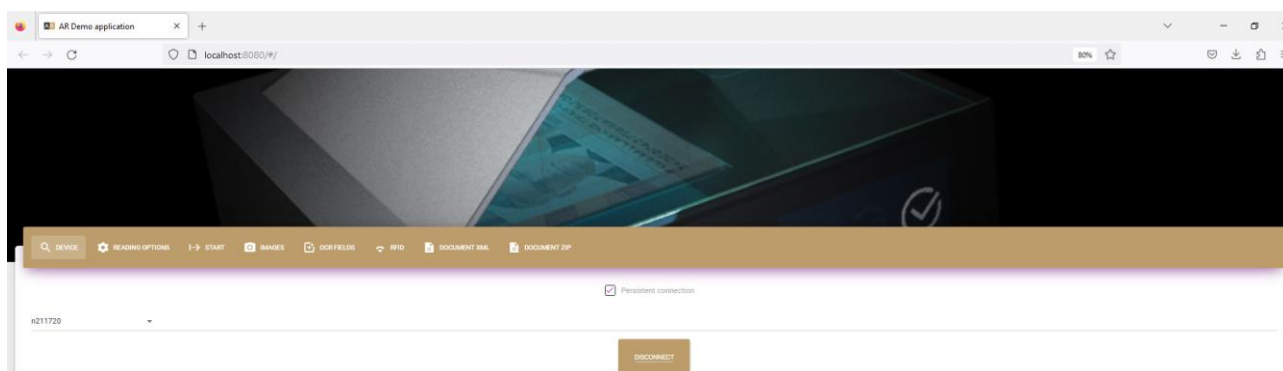
- v16.20.0 (Latest LTS: Gallium)
- v14.21.3 (Latest LTS: Fermium)

3. USAGE OF VUE SAMPLE APPLICATION

As a first step, select a device from the drop-down list, in the **DEVICE** menu. If you have performed all installation steps successfully and have an Osmond N device available via Ethernet (or USB Passport Reader device connected to your PC) the list of devices appears. Select the one you would like to use then click **CONNECT** (e.g. n211720).

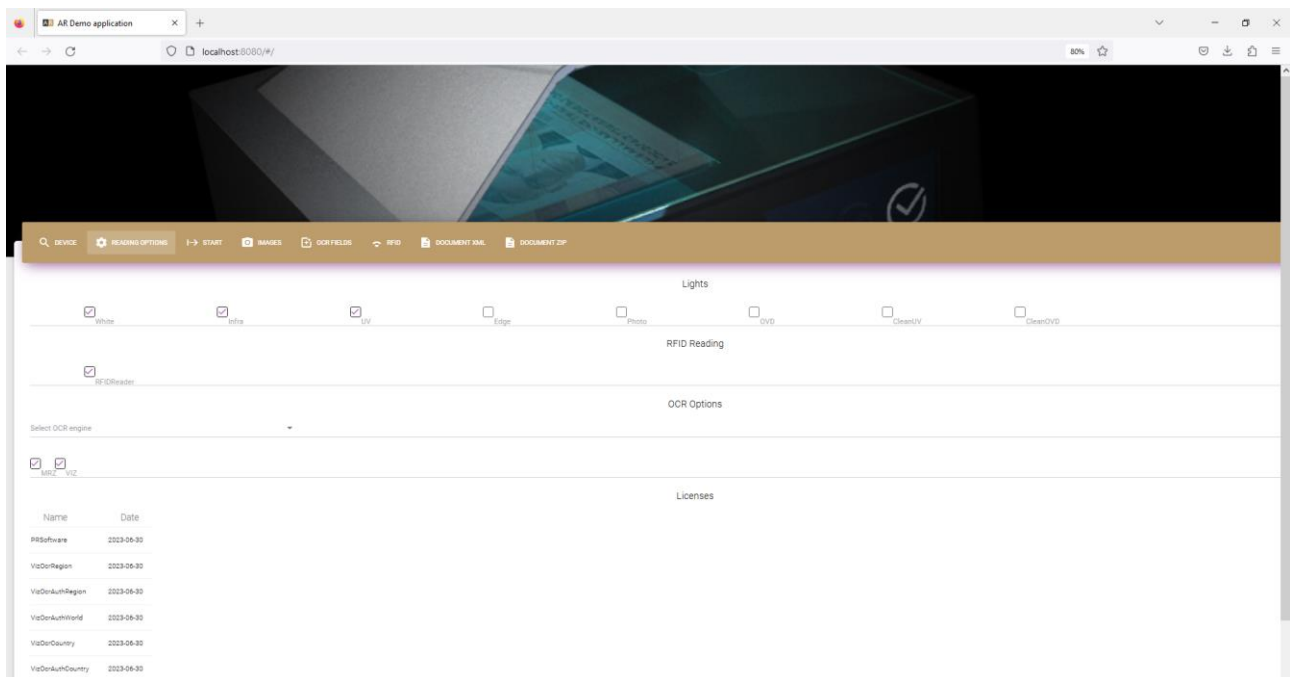
Note

If **Persistent connection** is disabled, the connected Osmond N automatically disconnects after few minutes of inactivity. Note that this option does not have any effect on USB Passport Reader devices.



Upon successful connection, the label of **CONNECT** button changes to **DISCONNECT**.

As a second step, click **Reading Options** and select the reader tasks:



Lights: Select illuminations for image capturing. At least one light type must be selected.

RFID reading: Enable or disable reading RFID chip content from electronic documents.

OCR options: Select if data should be OCR-ed from MRZ (Machine Readable Zone) and/or from VIZ (Visual Inspection Zone).

Select OCR engine: Select OCR engine to use on the Osmond N device or among the OCR engines installed on local PC (for USB Passport Reader devices).

Under the **Licenses** section, the software licenses available on the connected device are listed.

Finally, click **Start** to start the scanning process.

Images

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The screenshot shows a web browser window with the title 'AR Demo application'. The address bar displays 'localhost:8080/#/'. The application content area shows a 3D rendering of a document being scanned by a device. A navigation bar at the bottom contains the following items: a magnifying glass icon, 'DEVICE', a gear icon, 'READING OPTIONS', a right-pointing arrow icon, 'START', a camera icon, 'IMAGES', a document with a magnifying glass icon, 'OCR FIELDS', a wireless signal icon, 'RFID', a document icon, 'DOCUMENT XML', and a document icon, 'DOCUMENT ZIP'. A button labeled 'DOCUMENT (ZIP FORMAT)' is located in the bottom right corner of the application area.

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AR Technical Support System (ATSS) is designed to provide you the fastest and most proficient assistance, so you can quickly get back to business.

Information regarding hardware, software, manuals and FAQ are easily accessible for customers who previously registered to enter the dedicated ATSS site. Besides offering assistance, the site is also designed to provide maximum protection while managing your business information and technical solutions utilized.

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If you need assistance with login or registration, please contact atsshelp@adaptiverecognition.com for help.

