Device Pairing Subsystem 3.0.0

SPA Installation Guide

DPS-Installation-Guide-SPA-3.0.0

November 09, 2020

**Revision history**

| **Revision** | **Date** | **Description** |
| --- | --- | --- |
| A |  | Initial release |
| B | November 2020 | Release 3.0.0 |

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# **Introduction**

## Purpose & Scope

This document provides:

* Installation instructions for Single Page Application of Device Pairing Subsystem

## Definitions, Acronyms & Abbreviations

Table 1 - Definitions, Acronyms & Abbreviations

| Term | Explanation |
| --- | --- |
| DIRBS | Device Identification, Registration & Blocking System |
| DPS | Device Pairing Subsystem |
| OS | Operating System |
| Nginx | An open source, lightweight, high-performance web server or proxy server. |
| Apache | An open source web server |
| API | Application Program Interface |
| Gateway | A Gateway route requests from clients to services |
| SPA | Single Page Application |
| IAM | Identity Access Management |

## References

Table 2 - References

| Ref no. | Document |
| --- | --- |
| REF-1 | IAM User Guide (section 3) |

## Getting Started

The instructions provided in this document assumes that the required equipment (hardware, software) has been installed and configured.

# **Installation**

1. The reader acknowledges and agrees that he is entirely and solely responsible for the selection and use of all third-party software modules downloaded and installed by this installation method, including securing all appropriate and proper rights of use to any of such third-party software modules and to comply fully with any terms of use that may apply to or accompany any such third-party software modules.

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## System Requirements

## Software Requirements

* Node v8.9.4 or greater
* NPM v5.6.X or greater
* Nginx 1.14.X

## Hardware Requirement

Minimum hardware requirements are:

* At least 512 MB of RAM
* At least 1G of disk space

## Operating System

This system will be installed and configured with Ubuntu 16.04. Refer to the [Ubuntu Installation Guide](https://help.ubuntu.com/lts/installation-guide/i386/install.en.pdf) for additional installation help.

## Supported Desktop Browsers

Table 3 - Supported Desktop Browsers

|  |  |
| --- | --- |
| **Name** | **Version** |
| Internet Explorer | 11.0 |
| Firefox | 82.0.3 |
| Chrome | 86.0 |
| Safari | 13.1.2 |
| Edge | 86.0 |

## Supported Mobile Browsers

Table 4 - Supported Mobile Browsers

|  |  |
| --- | --- |
| **Name** | **Version** |
| Chrome | 86.0.4 |
| UC Browser | 13.3.3 |
| Opera (Android) | 60.3 |
| Opera Touch (iOS) | 2.5.1 |
| Safari | 13.1.2 |
| Samsung Internet | 13.0.1 |
| Android | 10 |

## Extracting Software Release

The DPS SPA release can be downloaded via one of the following two methods. To extract the contents of the distribution, run either:

Method 1: Download and unzip from GitHub

unzip Device-Pairing-Subsystem-Frontend.zip

Method 2: Clone the repository from GitHub

git clone <https://github.com/CACF/Device-Pairing-Subsystem-Frontend.git>

## Manual Installation

* Go to Device-Pairing-Subsystem-Frontend

cd Device-Pairing-Subsystem-Frontend

* Install dependencies by running below mentioned command

npm install

# **Configuration**

## Apiman, Keycloak and API Configurations

For Keycloak, Apiman and API Configurations, make a copy of settings-template.json in src directory and name it settings.json.

cp src/settings-template.json src/settings.json

nano src/settings.json

|  |
| --- |
| {  "appDetails": {  "appName": "dps", // configure Application name, make sure that this appName must be same as mentioned in Keycloak roles, e.g. drs\_authority  "supportEmail": "support@example.com", // configure this email as it will be visible for unauthorized user  "supportNumber": "PHONE\_NUMBER", // configure this contact number as it will be visible for unauthorized user  "defaultLanguage": "en"  },  "api": {  "host": "HOST API", // Configure API Host e.g. http://www.api-example.com  "port": "API PORT", // Configure API Port e.g. 3000  "version": "API VERSION", // Configure API Version e.g. /api/v1/  "use": false // for directly hitting API, make it \*True\*  },  "apiman": {  "host": "HOST APIMAN", // configure Apiman Host e.g. http://www.apiman-example.com  "port": "APIMAN PORT", // Configure Apiman Port e.g. 8000  "clientId": "APIMAN CLIENT ID", // configure clientID e.g. /apiman-gateway/example/appname/1.0  "use": true // for hitting Apiman Gateway directly, make it \*True\*  },  "keycloak": {  "host": "http://SERVER\_IP", // keycloak url  "port": "PORT\_NUMBER", // keycloak port  "version": "VERSION\_OR\_SUBPATH",  "clientId": "CLIENT\_ID",  "realm": "REALM",  "use": true  }  } |

## User Role & Frontend Configurations

To configure User Roles, go to *src/utilities/constants.js* file and make configurations accordingly.

nano src/utilities/constants.js

// configure pagination limit for Search module  
export const PAGE\_LIMIT = 10;

//configure User role, make sure that this user role must

//be the last part of keycloak user’s role e.g. //“dps\_authority\_authority” in here “dps” part   
//refers to appName and second part “authority” refers to

// user’s type and last part “authority” refers to user role level //configured in Keycloak.

export const AUTHORITY = 'authority';

export const MNO = 'mno';

//Configure country code

export const COUNTRY\_CODE = '92';

**Note:** To configure SPA in IAM, see IAM User Guide document section 3 and then perform following steps:

* Build the code for production

npm run build

* It will create a build directory, copy the content of the directory to web root directory e.g. /var/www/html (default Nginx web root directory)

cp -r build/\* /var/www/html

# **Testing**

To verify the installation, visit server web IP on browser i.e. <http://your_server_IP_address>