



Device Characterization Platform 1.0.0

SPA Installation Guide

DCP-SPA-Installation-Guide-1.0.0

October 5, 2019

Revision history

Revision	Date	Description
A	October 2019	Initial release

Contents

1 Introduction	4
1.1 Purpose & Scope.....	4
1.2 Definitions, Acronyms & Abbreviations	4
1.3 References	4
1.4 Getting started	4
 2 Installation	 5
2.1 System Requirements	5
2.2 Software Requirements	5
2.3 Hardware Requirements.....	5
2.4 Operating System.....	5
2.5 Supported Desktop Browsers	6
2.6 Supported Mobile Browsers.....	6
2.7 Extracting Software Release	6
2.8 Manual Installation.....	7
 3 Configuration.....	 8
3.1. Apache2 Configuration	9
 4 Testing	 10

Tables

Table 1-Definitions, Acronyms & Abbreviations	4
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1 Introduction

1.1 Purpose & Scope

This document provides:

- Installation instructions for Single Page Application of the Device Characterization Platform (DCP).

1.2 Definitions, Acronyms & Abbreviations

Table 1-Definitions, Acronyms & Abbreviations

Term	Explanation
DCP	Device Characterization Platform
OS	Operating System
PostgreSQL	PostgreSQL open source object-relational database system
Apache	An open source web server
SPA	Single Page Application

1.3 References

N.A

1.4 Getting started

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

2 Installation

NOTE: The reader acknowledges and agrees that it 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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2.1 System Requirements

2.2 Software Requirements

Minimum software requirements are

- Node v10.x or greater
- NPM v6.x or greater
- php7.2
- Laravel 5
- apache2 or Nginx
- composer

2.3 Hardware Requirements

Minimum hardware requirements are:

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

2.4 Operating System

This subsystem will be installed and configured with Ubuntu 16.04. Refer to the [Ubuntu Installation Guide](#) for additional installation help.

2.5 Supported Desktop Browsers

- Chrome 63.0 (recommended)
- Internet Explorer 11.0
- Firefox 52.5 ESR, 57.0
- Safari 11.0
- Edge 41.16299

2.6 Supported Mobile Browsers

- Chrome 63.0 (recommended)
- Safari 11.1
- UC Browser 11.5
- Opera (Android) 44.1
- Opera Mini (iOS) 16.0.7
- Samsung Internet 6.2
- Android (included with Android OS4.1.X-4.3)

2.7 Extracting Software Release

The DCP software release is distributed as a tar.gz file or download/clone the repository from git

```
git clone https://github.com/CACF/DCP\_FRONTEND
```

- To extract the contents of the distribution, run:

```
tar xvzf DCP_FRONTEND.tar.gz
```
- Copy the contents to the web root directory e.g. /var/www/html (default Apache2 web root directory)

2.8 Manual Installation

- Ensure the APT package index is updated
`apt-get update --fix-missing`
- Install apache server
`apt-get install apache2 libapache2-mod-php`
- Install PHP 7.2 with required packages for Laravel 5.5
`apt-get install php7.2 php7.2-fpm php-pear php7.2-curl php7.2-dev
php7.2-gd php7.2-mbstring php7.2-zip php7.2-xml php7.2-pgsql`
- Install Composer
`apt-get install composer`
- Install node
`apt-get install nodejs`
- To check the node and package manager version run below mentioned commands
`nodejs -v
npm -v`

3 Configuration

- Go to path /var/www/html/dvs_app_staging and execute following commands:

```
cd /var/www/html/DCP_FRONTEND/
```

- Install all third party dependencies

```
composer install
```

- For SPA configurations run

```
php artisan setup:app -npm
```

- Change ownership of the web root directory

```
chown -R www-data:www-data /var/www/html/DCP_FRONTEND
```

- Change permissions of the web root:

```
sudo chmod -R 755 /var/www/html/DCP_FRONTEND  
sudo chmod -R 777 /var/www/html/DCP_FRONTEND/storage
```


3.1. Apache2 Configuration

Make changes in apache2 configuration in order to serve app

- Go to path /etc/apache2/sites-available

```
cd /etc/apache2/sites-available/
```

- Edit configuration file “default.conf”

```
nano 000-default.conf
```

- Change document root in “default.conf” file

```
DocumentRoot /var/www/html/DCP_FRONTEND/public
```

- Add following lines in server block under “Document Root”

```
<Directory var/www/html/DCP_FRONTEND/public>
Options Indexes FollowSymLinks MultiViews
AllowOverride All
Require all granted
</Directory>
```

- Enable rewrite module in apache2

```
sudo a2enmod rewrite
```

- Enable PHP 7.2 module in apache2

```
sudo a2enmod php7.2
```

- Restart apache service

```
service apache2 restart
```

4 Testing

- To verify the installation, visit server IP on browser i.e. http://your_server_IP_address
- To check apache configurations for errors
`apachectl -t`