Device Characterization Platform 1.0.0

SPA Installation Guide

DCP-SPA-Installation-Guide-1.0.0

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Revision history

| Revision | Date | Description |
| --- | --- | --- |
| A | October 2019 | Initial release |

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# **Introduction**

## Purpose & Scope

This document provides:

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

## 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 |

## References

N.A

## Getting started

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

# **Installation**

1. 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.

Qualcomm Technologies, Inc. does not undertake any obligations, duties, or other responsibilities in connection with the selection or use by the reader of any of such third-party software modules.

## System Requirements

## Software Requirements

Minimum software requirements are

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

## Hardware Requirements

Minimum hardware requirements are:

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

## Operating System

This subsystem 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

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

## 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)

## 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\_FRONTEEND.tar.gz
* Copy the contents to the web root directory e.g. /var/www/html (default Apache2 web root directory)

## 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

# **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 |

## 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

# **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