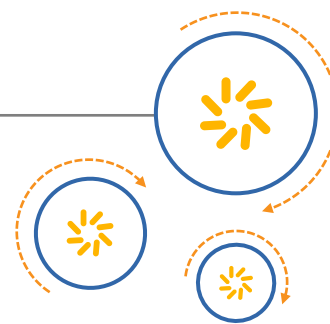




Qualcomm Technologies, Inc.



Device Verification Subsystem

Developer Guide

DVS-Developer-Guide-iOS-App-Authority

July 12, 2018

Revision history

Revision	Date	Description
A		Initial release

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1 Introduction

1.1 Purpose & Scope

This document provides:

- Installation instructions for the Device Verification Subsystem iOS app 1.0.0 for authority
- Instructions for running test commands to verify DVS installation

1.2 Audience & Technical Stakeholder

This Installation and Deployment Guide is intended to be used by technical stakeholders of the Device Verification Subsystem Mobile app, who will be responsible for planning, performing, or maintaining the installation or deployment, such as the System Administrators and Developers.

1.3 Definitions, Acronyms & Abbreviations

Table 1- Definitions, Acronyms & Abbreviations

Term	Explanation
DIRBS	Device Identification, Registration & Blocking System
DVS	Device Verification Subsystem
OS	Operating System

1.4 References

N.A

1.5 Getting started

The instructions provided in this document assume that the recommended equipment has been installed and configured with Mac OS.

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.

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.

2.1 System Requirements

2.2 Software Requirements

- Xcode 9.4.1
- Minimum iOS version 9.0
- Mac OS 10.13.4

2.3 Hardware Requirements

Minimum hardware requirements to run DVS app using xcode.

- At least 8 GB of RAM
- Processor: 2.5 GHz Intel Core i5
- At least 20GB of disk space
- Internet Connection

Minimum hardware requirements to test DVS app on iOS device.

- iOS Device with Camera
- Internet Connection

2.4 Operating System

This system can be installed and configured with Mac OS.

2.5 Extracting Software Release

The DVS software release is distributed as a tar.gz file. To extract the contents of the distribution, run:

```
tar xvzf dirbs-dvs-ios-authority-1.0.0.tar.gz
```

2.6 Manual Installation

Go to dirbs-dvs-ios-authority-1.0.0 and open DVS.xcworkspace file in xcode.

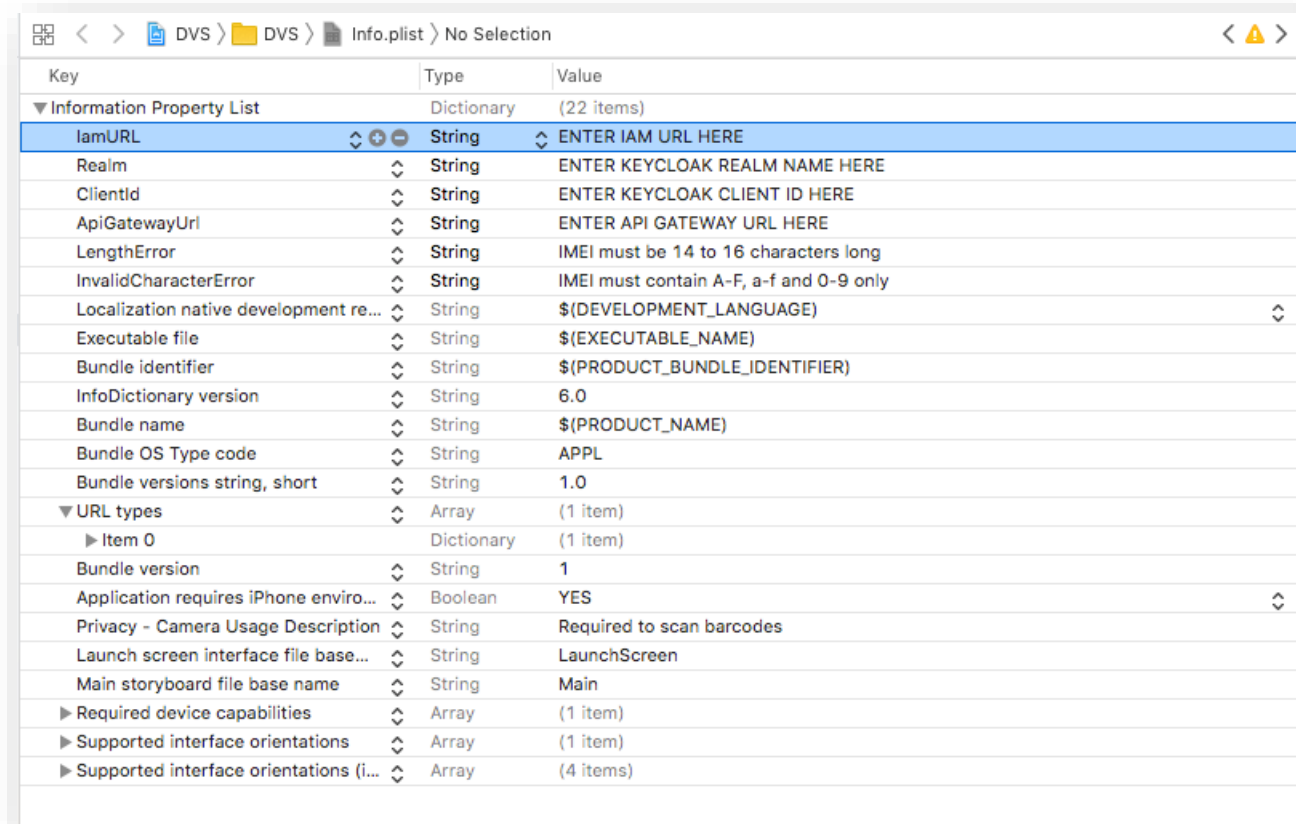
3 Configuration

3.1 Keycloak Configuration

- Logged in IAM
- Go to “Clients” section
- Click on “DVS-app” client
- In settings tab write callback URL “com.qualcomm.auth.entity.dvs://oauth2Callback” in “Valid Redirect URL” field

3.2 App Configuration

- To change any icon open Assets.xcassets file in Xcode and select required icon
- Open info.plist file and add IAM URL in “IamUrl” field



The screenshot shows the Xcode interface with the 'Info.plist' file open. The 'Information Property List' is expanded, showing a list of keys. The 'IamURL' key is highlighted in blue. The table below represents the data visible in the screenshot.

Key	Type	Value
▼ Information Property List	Dictionary	(22 items)
IamURL	String	ENTER IAM URL HERE
Realm	String	ENTER KEYCLOAK REALM NAME HERE
ClientId	String	ENTER KEYCLOAK CLIENT ID HERE
ApiGatewayUrl	String	ENTER API GATEWAY URL HERE
LengthError	String	IMEI must be 14 to 16 characters long
InvalidCharacterError	String	IMEI must contain A-F, a-f and 0-9 only
Localization native development re...	String	\$(DEVELOPMENT_LANGUAGE)
Executable file	String	\$(EXECUTABLE_NAME)
Bundle identifier	String	\$(PRODUCT_BUNDLE_IDENTIFIER)
InfoDictionary version	String	6.0
Bundle name	String	\$(PRODUCT_NAME)
Bundle OS Type code	String	APPL
Bundle versions string, short	String	1.0
▼ URL types	Array	(1 item)
▶ Item 0	Dictionary	(1 item)
Bundle version	String	1
Application requires iPhone enviro...	Boolean	YES
Privacy - Camera Usage Description	String	Required to scan barcodes
Launch screen interface file base...	String	LaunchScreen
Main storyboard file base name	String	Main
▶ Required device capabilities	Array	(1 item)
▶ Supported interface orientations	Array	(1 item)
▶ Supported interface orientations (i...	Array	(4 items)

Figure 1- Add IAM URL

- Enter Realm name in “Realm” field

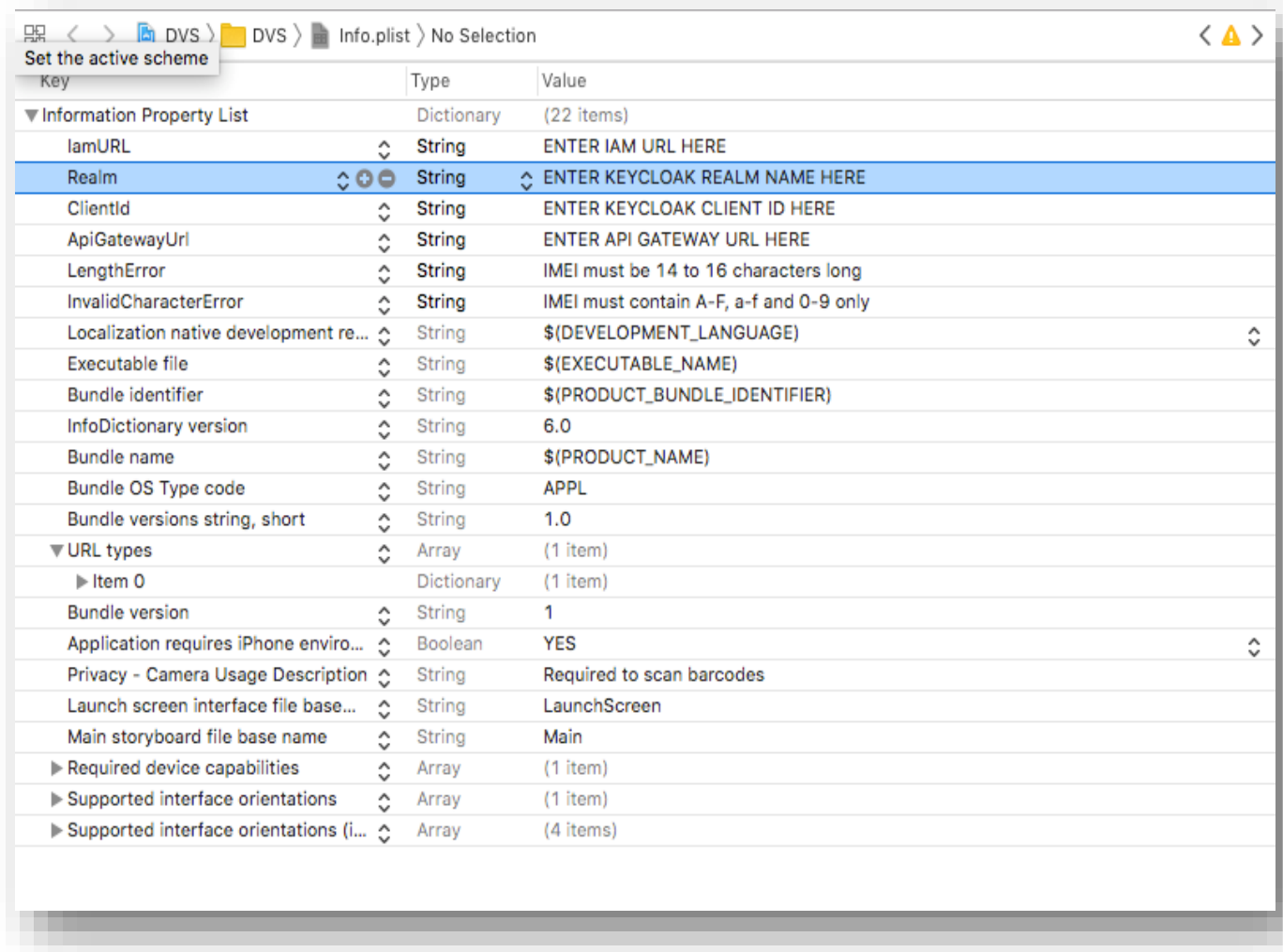


Figure 2- Add Realm Name

- Enter Client ID in “ClientId” field

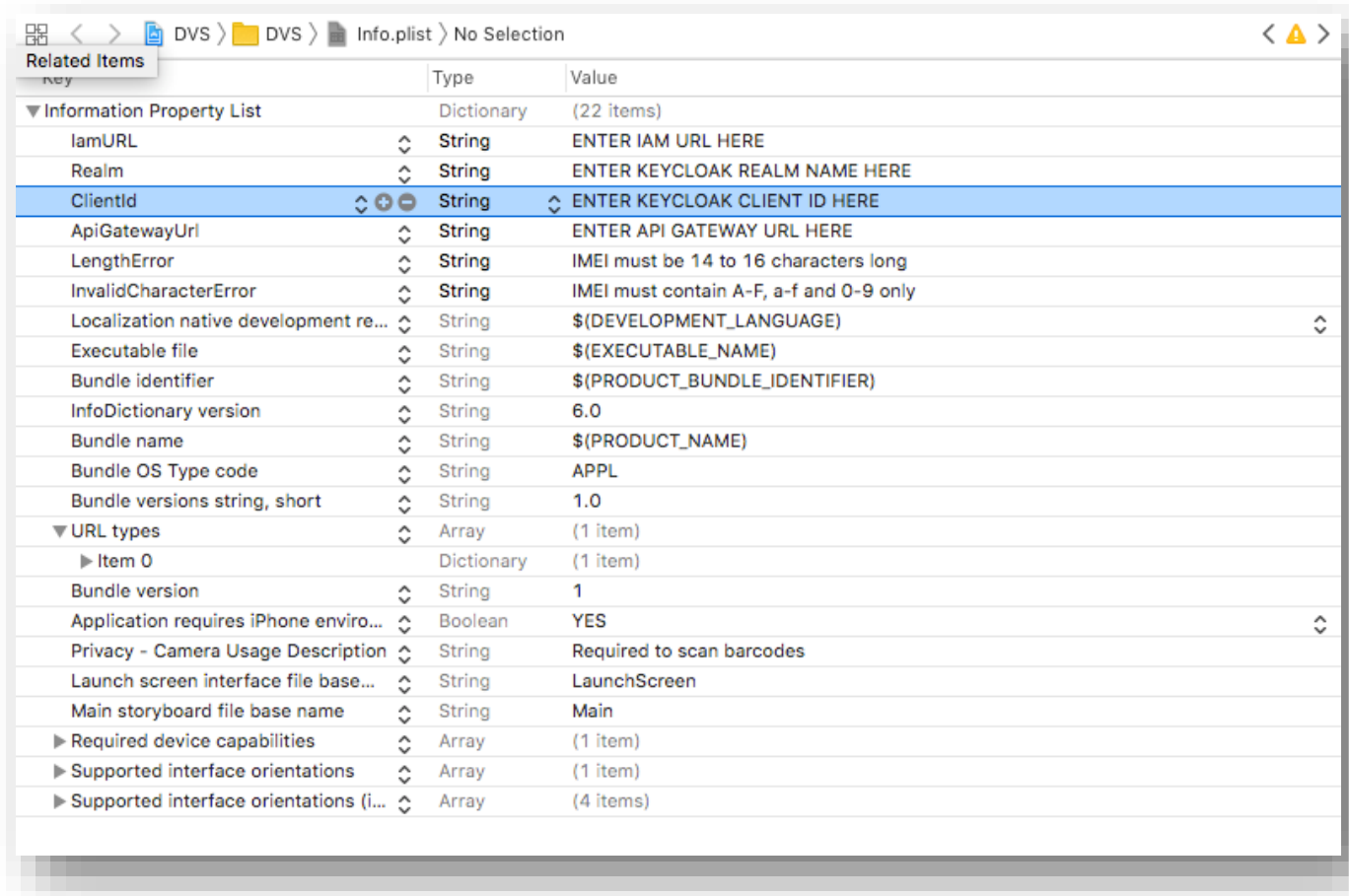


Figure 3- Add Client ID

- Enter URL of API Gateway in “ApiGatewayUrl” field

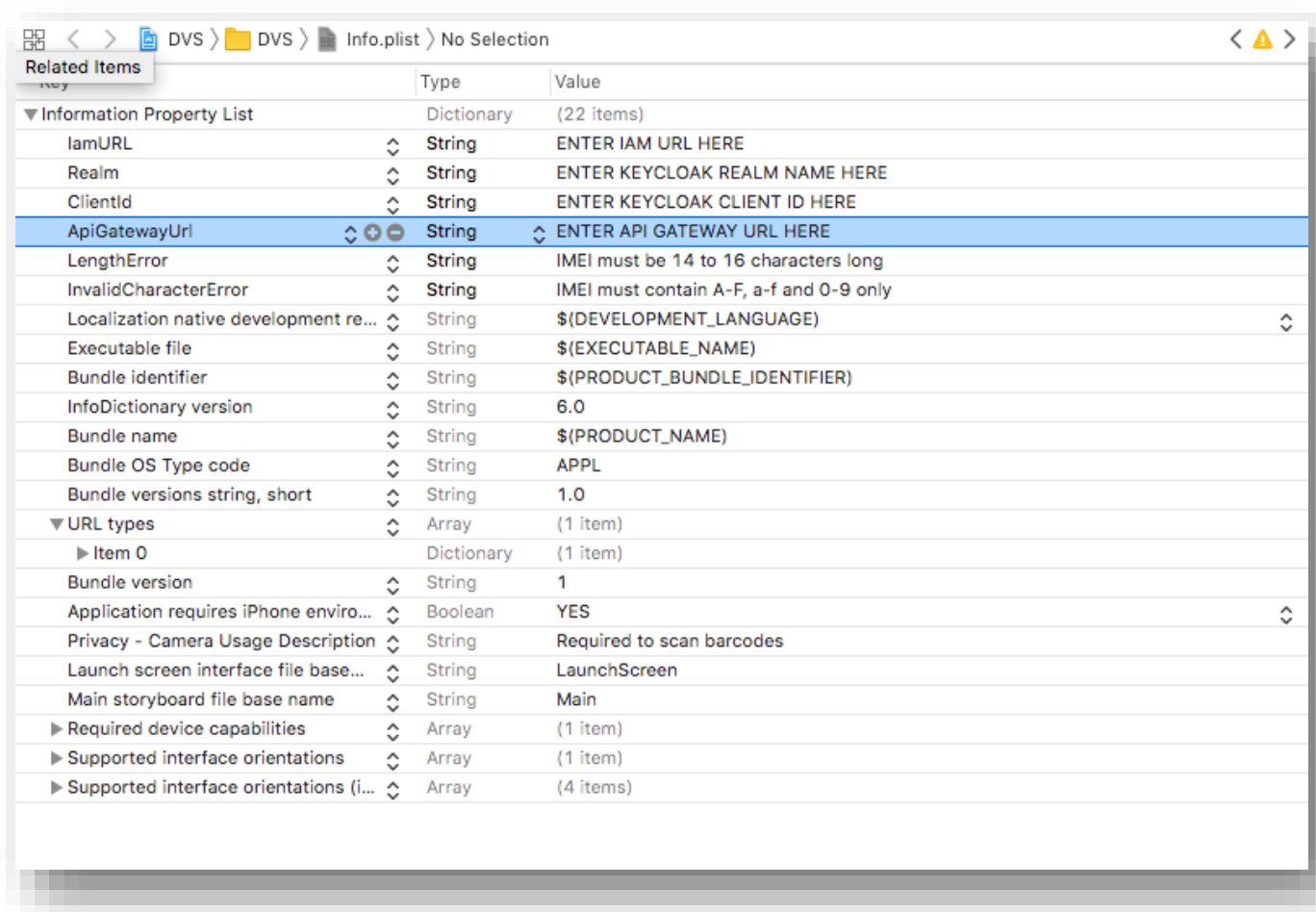


Figure 4- Add API Gateway URL

4 Testing

To test the successful installation of app, run the app either on any physical device or on iOS simulator.

5 Publish App

To publish app on Apple app store visit this [link](#).