

# Introduction to Developmental Environment for Device API

## Outline

This Section describes how Developmental Environment of Device API, one of the developmental environments available in eGovFramework, is made of.

## Description

Refer to [Developmental Environment for eGovFramework 2.7](#) for overall description.

Developmental Environment of Device API

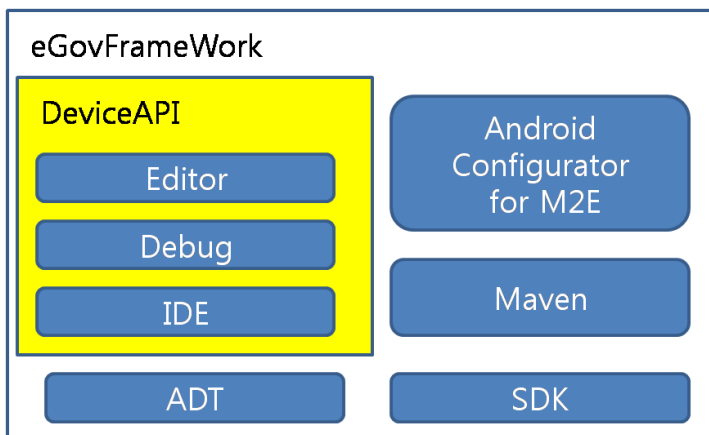
- The developmental environment for eGovFramework Device API comprises Eclipse Plugin and Xcode framework project for development in iOS.

### Android

The conventional eGovFramework developmental environment is used for Android environment. In Android environment, the conventional eGovFramework developmental environment provides the developers with business program development, version administration, unit test, build and life-cycle support tools. The supportive tools are made available thanks to SDK and ADT.

- DeviceAPI IDE (Editor, Debug, IDE)
- SDK
- ADT
- Android Configurator for M2E

### Structure and Composition



**IDE**

Developmental Environment for Device API based upon eGov Standard Framework

**SDK** Development Kit for Android-based development

**ADT** Eclipse-based Android Development Tool that helps development of Android application

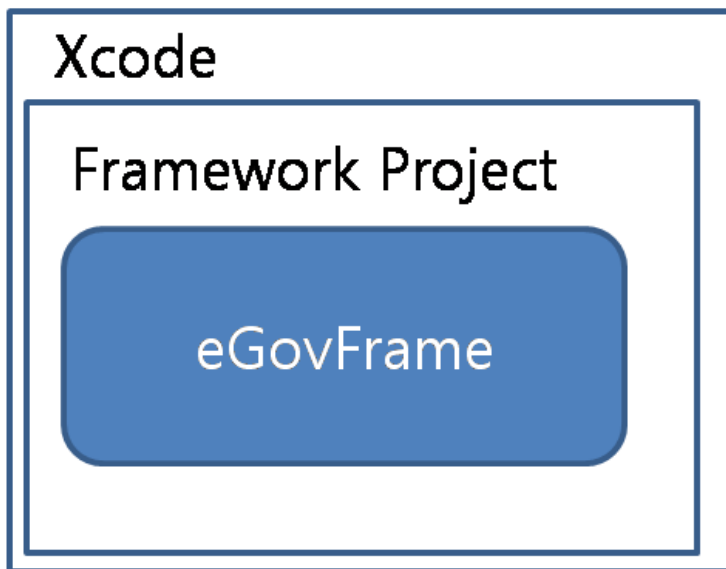
**Android Configurator for M2E** A plug-in that is intended for Android configuration using Maven

## iOS

The developmental environment embedded in OS X, entitled 'Xcode', is used for development of iOS application.

Meanwhile, eGov Standard Framework Device API provides the developers with a set of framework and the project creator tools comprising a set of framework and resources.

### Structure and Composition



## Configuration

### System Requirements

#### Android

Item	Version Recommended	Remark
Required OS	Windows, Mac OSX, Linux	
Java Development Kit	7.0	
Eclipse IDE for Java EE Developers 4.3		<a href="http://www.eclipse.org/downloads/">http://www.eclipse.org/downloads/</a>

Android OS API level 8 version 2.2 Froyo or higher

**iOS**

Item	Version Recommended	Remark
Required OS Mac OSX	10.9.4 (Mavericks) or better	
Xcode	6.3	
iOS	6.0	iPhone 3Gs or better

**WAS**

- Based upon the developmental environment of eGov Standard Framework

Title	Version Recommended	Java Compatibility	Remark
Jboss application platform	4.3.0	JDK 5.0	
Tmax JEUS	6.0.0.5	JDK 5.0 or higher	
Oracle WebLogic Server	9.2	JDK 5.0 or higher	

**DBMS**

Title	Version Recommended	Remark
Mysql	5.1.30	
Tibero	3.0(sp2)	
Altibase DBMS Server	5.1.3.18	
Oracle	9.2(mp3)	

**Use of Open Source Software**

**Android**

Service Group	Services	Open Source Software	Version	License	Expansion and Development
DeviceAPI	Edit Source Editor	Eclipse	4.3 Kepler	EPL & EDL	Newly Developed
	IDE	DeviceAPI IDE	N/A		
	Debug	Local Debugger	Eclipse	4.3	
Android SDK		SDK	Revision 24 or better	The Apache License, Version 2.0	

ADT	Android Development Tool	Up-to-date version	Eclipse Public License 1.0, kxml2-2.3.0.jar for BSD
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Android Configuration for Eclipse		2.4.8	Eclipse Public License 1.0
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**iOS**

N/A