# Driver App编译流程现状

## 1、本地编译流程

```
DriverApp与国内大多APP不同,它支持海外多个国家使用,后续还会增加更多国家,目前支持的国家如下:
```

```
#
COUNTRY_VERSION_ID=1

#
COUNTRY_VERSION_MY=2

#
COUNTRY_VERSION_TH=3

#
COUNTRY_VERSION_PH=4

#
COUNTRY_VERSION_VN=5

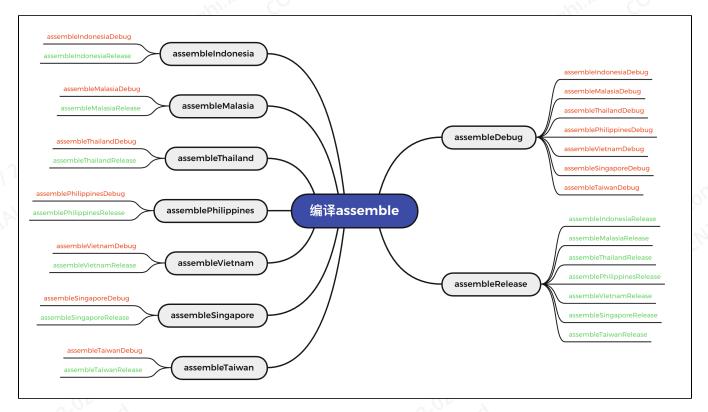
#
COUNTRY_VERSION_SG=6

#
COUNTRY_VERSION_TW=7
```

对于不同国家APK生成,目前使用productFlavors方式多渠道打包,根据配置的flavorName在编译时依次生成对应的APK包而在每个flavor定义中,添加了countryVersion配置和编译小语种资源目录,如下所示:

```
productFlavors {
    indonesia {
        dimension 'default'
        buildConfigField('int', 'countryVersion', "${COUNTRY_VERSION_ID}")
        resConfigs 'in'
   malasia {
        dimension 'default'
        buildConfigField('int', 'countryVersion', "${COUNTRY_VERSION_MY}")
        resConfigs 'ms'
   thailand {
        dimension 'default'
        buildConfigField('int', 'countryVersion', "${COUNTRY_VERSION_TH}")
        resConfigs 'th'
   philippines {
        dimension 'default'
        buildConfigField('int', 'countryVersion', "${COUNTRY_VERSION_PH}")
        resConfigs 'tl'
   vietnam {
        dimension 'default'
        buildConfigField('int', 'countryVersion', "${COUNTRY_VERSION_VN}")
        resConfigs 'vi'
   singapore {
        dimension 'default'
        buildConfigField('int', 'countryVersion', "${COUNTRY_VERSION_SG}")
        resConfigs 'en'
   taiwan {
        dimension 'default'
        buildConfigField('int', 'countryVersion', "${COUNTRY_VERSION_TW}")
        resConfigs 'zh-rTW'
```

例如,indonesia国家,在编译时countryVersion为COUNTRY\_VERSION\_ID,编译生成的APK中包含in语言和en语言(英文默认支持)
因此,每个渠道国家打包APK流程是一致的,在本地开发打包APK,只要通过渠道对应命令即可生成对应国家APK,如果需要生成全部渠道
APK包,也有对应的编译命令,目前多渠道编译打包命令总结如下:



另外,在gradle.properties中定义了app运行的各种环境,通常开发在本地默认编译Test环境,国家为印尼;如果需要本地打包其他环境的APK,在此文件中 修改对应值即可

```
#0 1 uat 2 staging 3
# env App cache key
ENV_TEST=0
ENV_UAT=1
ENV_STAGE=2
ENV_LIVE=3

ENV_TEST_NAME="test"
ENV_UAT_NAME="uat"
ENV_STAGE_NAME="staging"
ENV_LIVE_NAMNE="live"
```

#### 2、流水线编译流程

DriverApp目前的版本发布编译执行是在Jenkins中完成,通过在Athena-Pack平台设置打包参数,触发版本构建通知Jenkins,执行预先配置的脚本通过一系列步骤完成APK的打包生成,Jenkins流水线具体编译流程主要包含:

- 1. 输入参数
- 2. Clone 代码
- 3. 构建 Apk
- 4. APK 存档
- 5. 分发

相比本地编译打包流程,流水线主要多了Clone代码、APK存档、分发三个步骤

具体的执行脚本在 pipeline\_android\_pack.sh

构建Apk环节与本地编译打包基本一致

Jenkins Pipeline Android打包具体步骤参考

[SCA] Jenkins Pipeline Android打包

## 3、编译速度现状

#### 3.1、本地编译速度摸底

#### 全量编译:

(1) 9m 45s profile-2021-08-16-14-05-21.htm	3.02 17			
Summary	Configuration	Depen		
Description		Duration		
Total Build Tim	ne	9m45.13s		
Startup	0.040s			
Settings and b	uildSrc	0.907s		
Loading Project	ots	0.016s		
Configuring Pr	ojects	0.643s		
Artifact Transf	orms	11.088s		
Task Execution	า	48m22.17s		

Summary Configuration Dependency Resolution	Artifact Transforms Task Execution
Task	Duration Result
:app-driver	37m26.73s (total)
:app-driver:javaPreCompileThailandRelease	4m49.07s
:app-driver:mergeThailandReleaseJavaResource	4m34.36s
:app-driver:mergeSingaporeReleaseJavaResource	3m22.78s
:app-driver:mergeTaiwanReleaseJavaResource	2m39.14s
:app-driver:mergePhilippinesReleaseJavaResource	2m9.66s
:app-driver:mergeVietnamReleaseResources	1m42.47s
:app-driver:mergeSingaporeReleaseNativeLibs	1m25.27s
:app-driver:javaPreCompileSingaporeRelease	1m22.65s
:app-driver:mergeIndonesiaReleaseNativeLibs	1m16.80s
:app-driver:mergeMalasiaReleaseNativeLibs	1m5.78s
:app-driver:javaPreCompilePhilippinesRelease	1m4.80s
:app-driver:mergePhilippinesReleaseNativeLibs	1m1.36s
:app-driver:mergeTaiwanReleaseNativeLibs	43.205s
:app-driver:mergeTaiwanReleaseResources	35.027s
:app-driver:mergeMalasiaReleaseJavaResource	33.413s
:app-driver:mergeThailandReleaseResources	33.016s
:app-driver:minifyIndonesiaReleaseWithR8	29.048s
:app-driver:minifyPhilippinesReleaseWithR8	27.991s

(2)

增量编译:

#### 3.2、流水线编译速度摸底

1.查看Athena-Pack打包平台,筛选编译配置为所有渠道,分支为release相关的构建结果,数据如下:

	耗时	构建环境
1	17m28s	uat version/release-4.9.1
2	18m38s	uat version/release-4.9.1
3	19m23s	staging version/release-4.9.6
4	15m49s	staging version/release-4.9.1
5	17m7s	live version/release-5.0.0
6	19m44s	live version/release-4.9.6
7	17m39s	live version/release-4.9.3
8	17m31s	live version/release-4.9.2
平均	17m55s	.83

目前流水线构建全渠道包耗时大概在17m55s左右

采集数据截图如下:

## (1) 17min 28s

spx	all	10000	release	uat	version/release-4.9.1	2021-06-29 16:02:49	2021-06-29 16:20:17	Success
spx	all	10000	Telease	uat	version/release=4.7.1	2021-00-27 10.02.47	2021-00-27 10.20.17	Success

### (2) 18min 38s

spx all 10000 release uat version/release-4.9.1 2021-06-29 15:33:38 2021-06-29 15:52:16	Success
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#### (3) 19min 23s

spx	all	4.9.6	release	staging	version/release-4.9.6	0728version	2021-07-26 12:10:04	2021-07-26 12:29:27	Success

#### (4) 15min 49s

## (5) 17min 7s

spx	all	5.0.0	release	live	version/release-5.0.0	2021-08-11 13:28:30	2021-08-11 13:45:37	Success

#### (6) 19min 44s

		spx	all	4.9.6	release	live	version/release-4.9.6		2021-07-28 15:05:45	2021-07-28 15:25:29	Success
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## (7) 17min 39s

spx	all	4.9.3	release	live	version/release-4.9.3	2021-07-21 18:34:07	2021-07-21 18:51:46	Success

#### (8) 17min 31s

spx	all	4.9.2	release	live	version/release-4.9.2	2021-07-14 11:56:45	2021-07-14 12:14:16	Success	