GeTui - ServiceExtension 先运行项目，再运行应用扩展

iOS推送

1. 基本推送功能
2. 调试tip

实现扩展和宿主App之间共享数据

1. APP Group
2. 官方文档
3. Debug, Profile, and Test Your App Extension

Getui plat

个推推送后台：
账号：tv365
旧密码：!Ysdq@2018#
新密码：tv365Yingshi!2018
GeTui - API

需求文档

1. 需明确有多少用户关闭了推送通知权限 - 客户端启动时上报 需明确区分走个推/厂商通道的推送 已有推送上报：Push推送id、到达、点击事件上报

reference：

https://www.jianshu.com/p/559fb72a99d0

debug questions

路径配置参考01

1. 使用extentsion target测试， 程序在后台执行，推送到达时候应用报错，无法debug查看

> Message from debugger: Terminated due to signal 9

error::-1: Multiple commands produce '/Users/lxw/Library/Developer/Xcode/DerivedData/Le123PhoneClient-bqwcehbbulnyxecmihznrqlecpit/Build/Products/Debug-iphoneos/ServiceExt_ext3.appex/Info.plist':
1) Target 'ServiceExt_ext3' (project 'Le123PhoneClient') has copy command from '/Users/lxw/Desktop/ntc/repositories/ysdq/Le123PhoneClient/Targets/ServiceExt_ext3/Info.plist' to '/Users/lxw/Library/Developer/Xcode/DerivedData/Le123PhoneClient-bqwcehbbulnyxecmihznrqlecpit/Build/Products/Debug-iphoneos/ServiceExt_ext3.appex/Info.plist'

2) Target 'ServiceExt_ext3' (project 'Le123PhoneClient') has process command with output '/Users/lxw/Library/Developer/Xcode/DerivedData/Le123PhoneClient-bqwcehbbulnyxecmihznrqlecpit/Build/Products/Debug-iphoneos/ServiceExt_ext3.appex/Info.plist'

> Solution -> Open target -> Build phases > Copy Bundle Resources and remove info.plist

多Targets path configure

1. Target3
   Packaging >> Info.plist File: $(SRCROOT)/Le123PhoneClient/Targets/sdsp-ext3/sdsp-ext3.plist

2. 编译宏添加： Build Settings >> Preprocessor Macros 定义TargetValue宏

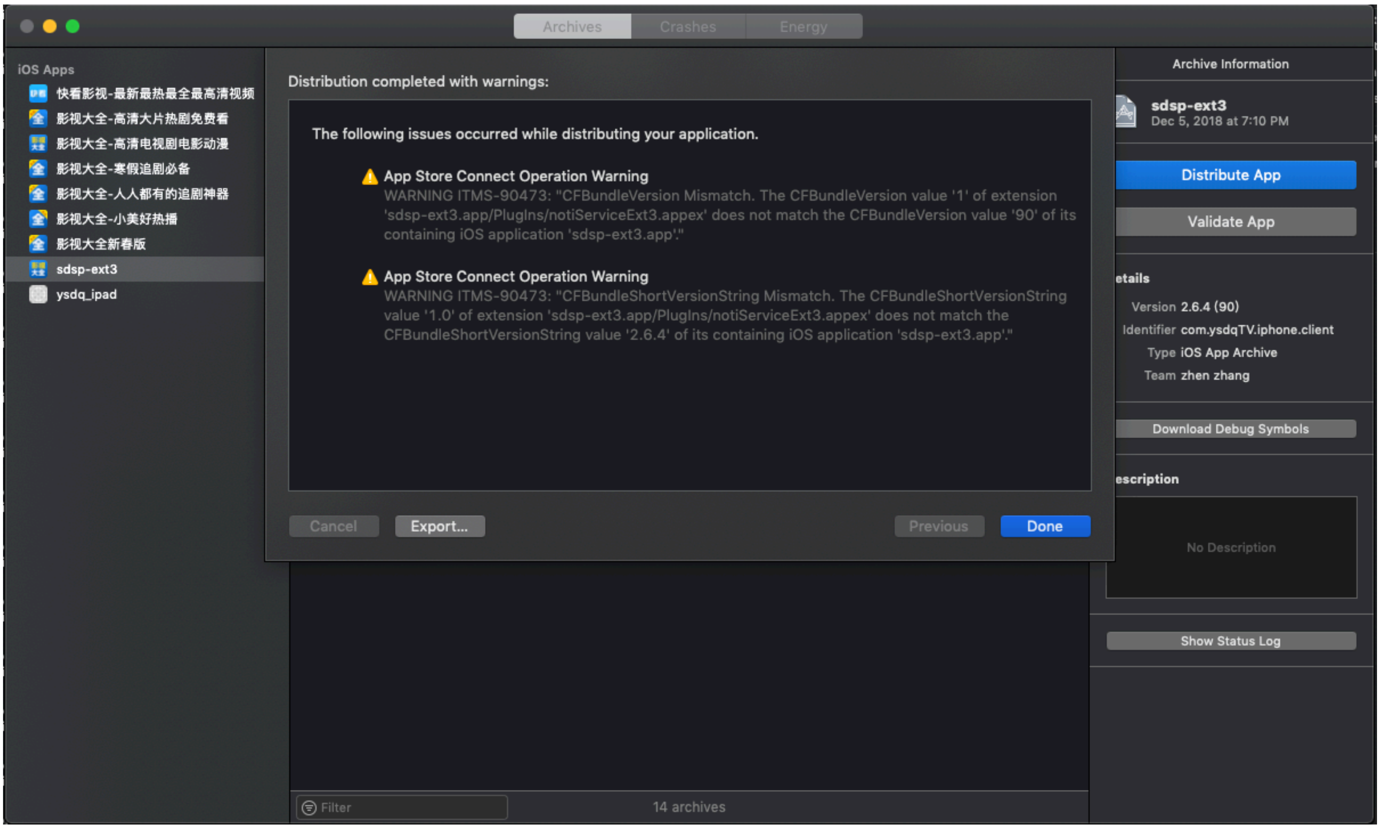
3.

TODO:

1. 添加ExtensionService,
2. 添加上报代码 a.获取上报参数， b.文件引入处理。

打包测试：

> 打包上传AppStore 或者进行testFlight测试的时候，需要build号 版本号的一致，否则会受到传包警告如下：



Distribution completed with warnings:

The following issues occurred while distributing your application.

⚠ App Store Connect Operation Warning
WARNING ITMS-90473: "CFBundleVersion Mismatch. The CFBundleVersion value '1' of extension 'sdsp-ext3.app/PlugIns/notiServiceExt3.appex' does not match the CFBundleVersion value '90' of its containing iOS application 'sdsp-ext3.app'."

⚠ App Store Connect Operation Warning
WARNING ITMS-90473: "CFBundleShortVersionString Mismatch. The CFBundleShortVersionString value '1.0' of extension 'sdsp-ext3.app/PlugIns/notiServiceExt3.appex' does not match the CFBundleShortVersionString value '2.6.4' of its containing iOS application 'sdsp-ext3.app'."

sdsp-ext3
Dec 5, 2018 at 7:10 PM

Version 2.6.4 (90)
Identifier com.ysdqTV.iphone.client
Type iOS App Archive
Team zhen zhang

1. 参考文档
2. Build Settings >> Build Active Architecture Only : NO ?

Xcode自动管理签名打包。

release_appStore包，经过TestFlight 测试，可行。

手动创建证书配置文件打包

devProfile 真机联调【iPhone Developer：zhen zhang(LY4BJURFPH)】：

1. Select App ID【com.ysdqTV.iphone.client】 <!--If you plan to use services such as Game Center, In-App Purchase, and Push Notifications, or want a Bundle ID unique to a single app, use an explicit App ID. If you want to create one provisioning profile for multiple apps or don't need a specific Bundle ID, select a wildcard App ID. Wildcard App IDs use an asterisk (*) as the last digit in the Bundle ID field. Please note that iOS App IDs and Mac App IDs cannot be used interchangeably.-->

2. Select certificates【Select All】
   <!--Select the certificates you wish to include in this provisioning profile. To use this profile to install an app, the certificate the app was signed with must be included.-->

3. Select devices.【Select All】
   <!-- Select the devices you wish to include in this provisioning profile. To install an app signed with this profile on a device, the device must be included.-->

4. Name this profile and generate.【dev_signing_provisioningProfile】
   <!--The name you provide will be used to identify the profile in the portal.-->

5. download:

   ```
   Profile Name: dev_signing_provisioningProfile
   Type: iOS Development
   App ID: ysdq2018 (BBRGPZXSLA.com.ysdqTV.iphone.client)
   Certificates: 9Included
   Devices: 50Included
   ```

测试：
Target-ext3:
Signing(Debug): dev_signing_provisioningProfile.

ServiceExt_ext3:
Signing(Debug): dev_signing_provisioningProfile_ext
如果选择与宿主target同一个配置文件会有如下提示：
<!--Provisioning profile "dev_signing_provisioningProfile" has app ID "com.ysdqTV.iphone.client", which does not match the bundle ID "com.ysdqTV.iphone.client.ServiceExt-ext3".-->

同步骤生成ext的dev配置文件：

```
Profile Name:   dev_signing_provisioningProfile_ext
Type:           iOS Development
App ID:         XC com ysdqTV iphone client ServiceExt-ext3 (BBRGPZXSLA.com.ysdqTV.iphone.client.ServiceExt-ext3)
Certificates:   9Included
Devices:        50Included
```

> > 分别使用各自AppId对应的配置文件，测试结果，可行。

releaseProfile 真机联调【iPhone Developer：zhen zhang(LY4BJURFPH)】：

1. Target >> Edit Scheme >> Run >> Info >> Build Configuration >> release

2. 配置证书组合使用：
   Target-ext3:
   Signing(Release): dev_signing_provisioningProfile.

   ServiceExt_ext3:
   Signing(Release): dev_signing_provisioningProfile(ext)

> Release环境下，使用开发者配置文件，分别使用各自AppId对应的配置文件，测试结果，可行。

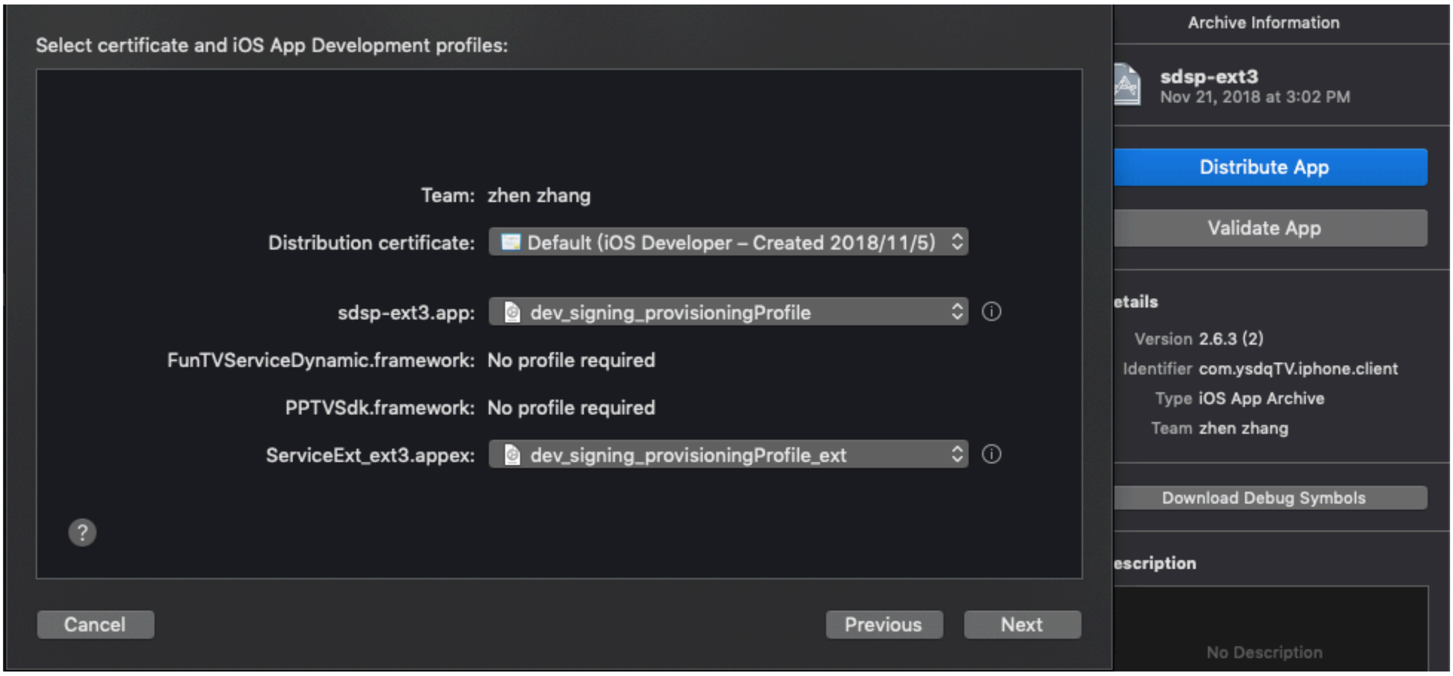
devProfile debug模式打包测试【iPhone Developer：zhen zhang(LY4BJURFPH)】：

1. Target >> Edit Scheme >> Archive >> Build Configuration >> Debug

2. Product >> Archive

3. Distribute App >> Development | Ad Hoc 风别测试效果 （iOS App Store - testFlighting? ）

a. Development



Select certificate and iOS App Development profiles:

Team: zhen zhang

Distribution certificate: Default (iOS Developer – Created 2018/11/5)

sdsp-ext3.app: dev_signing_provisioningProfile

FunTVServiceDynamic.framework: No profile required

PPTVSdk.framework: No profile required

ServiceExt_ext3.appex: dev_signing_provisioningProfile_ext

Archive Information

sdsp-ext3
Nov 21, 2018 at 3:02 PM

etails

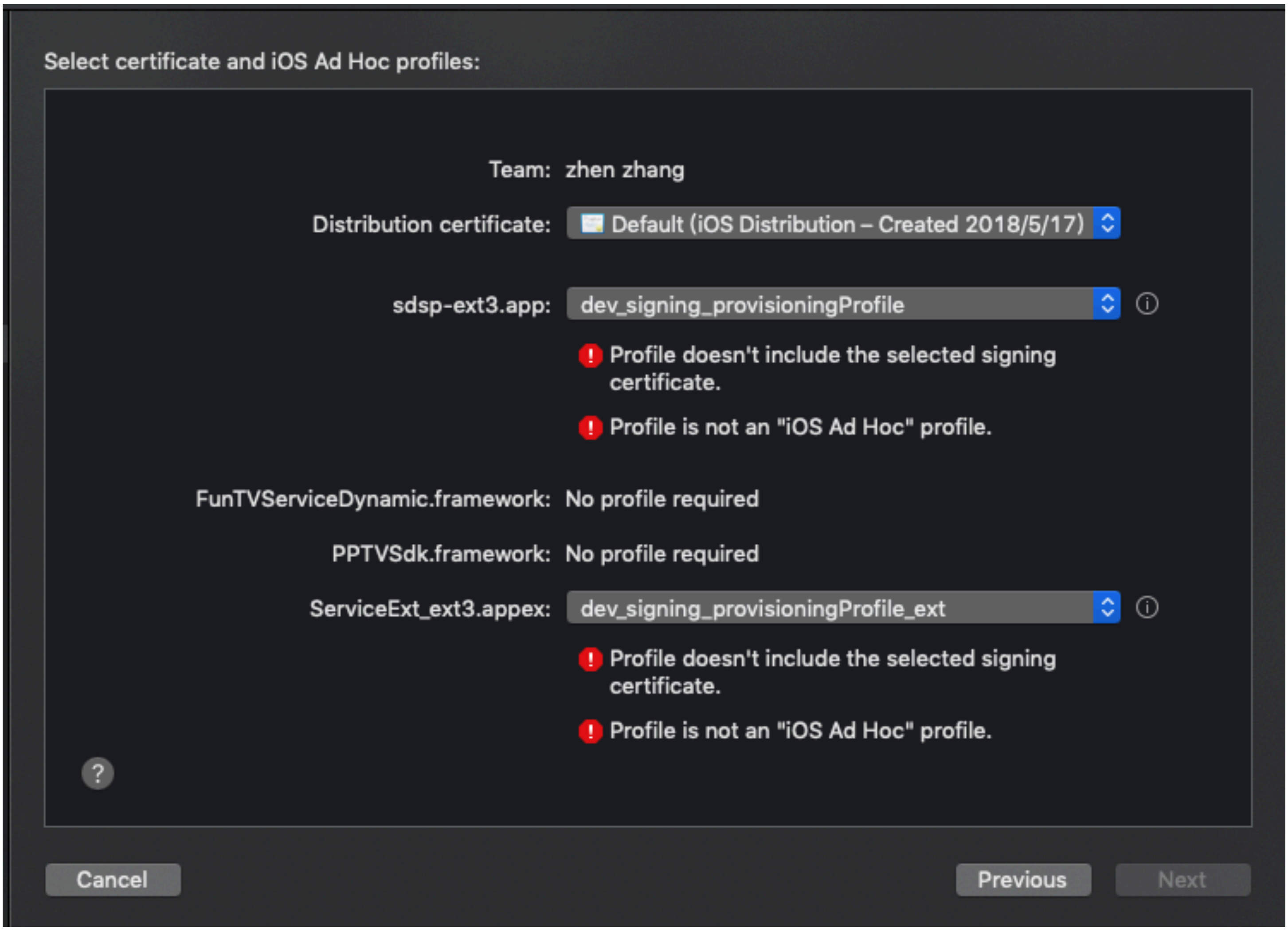
Version 2.6.3 (2)
Identifier com.ysdqTV.iphone.client
Type iOS App Archive
Team zhen zhang

escription

No Description

> 经过fir.im 平台安装开发环境推送效果有效。【debug_development_OK】

b. Ad Hoc



Select certificate and iOS Ad Hoc profiles:

Team: zhen zhang

Distribution certificate: Default (iOS Distribution – Created 2018/5/17)

sdsp-ext3.app: dev_signing_provisioningProfile

❗ Profile doesn't include the selected signing certificate.

❗ Profile is not an "iOS Ad Hoc" profile.

FunTVServiceDynamic.framework: No profile required

PPTVSdk.framework: No profile required

ServiceExt_ext3.appex: dev_signing_provisioningProfile_ext

❗ Profile doesn't include the selected signing certificate.

❗ Profile is not an "iOS Ad Hoc" profile.

需要另外创建配置证书，

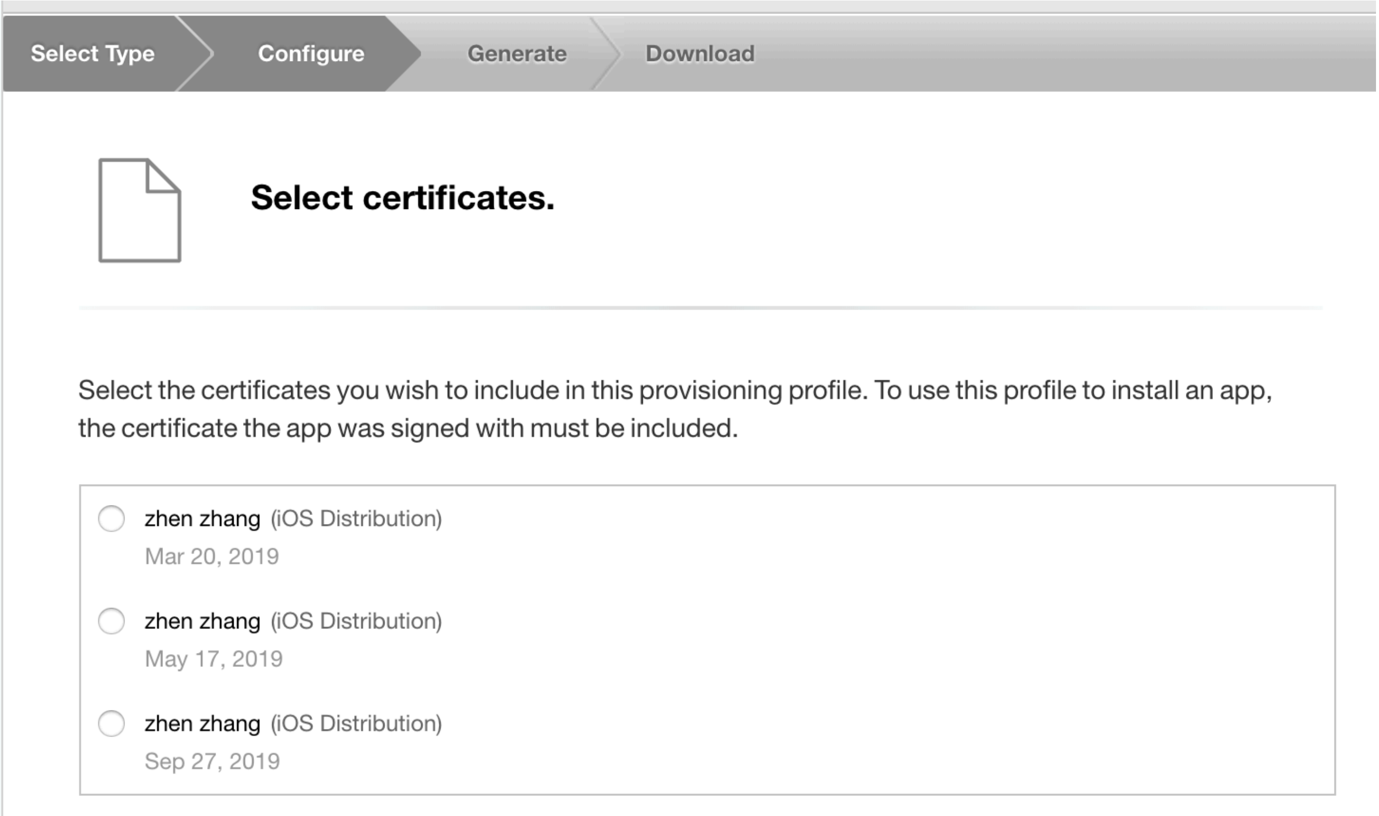
(distribute) Profile 【iPhone Developer：zhen zhang(LY4BJURFPH)】：

1. Select Type: Distribution
   `What type of provisioning profile do you need?`

   Ad Hoc
   `Create a distribution provisioning profile to install your app on a limited number of registered devices.`

2. Select App ID: 【com.ysdqTV.iphone.client】

3. Select certificates.



Select certificates.

Select the certificates you wish to include in this provisioning profile. To use this profile to install an app, the certificate the app was signed with must be included.

○ zhen zhang (iOS Distribution)
Mar 20, 2019

○ zhen zhang (iOS Distribution)
May 17, 2019

○ zhen zhang (iOS Distribution)
Sep 27, 2019

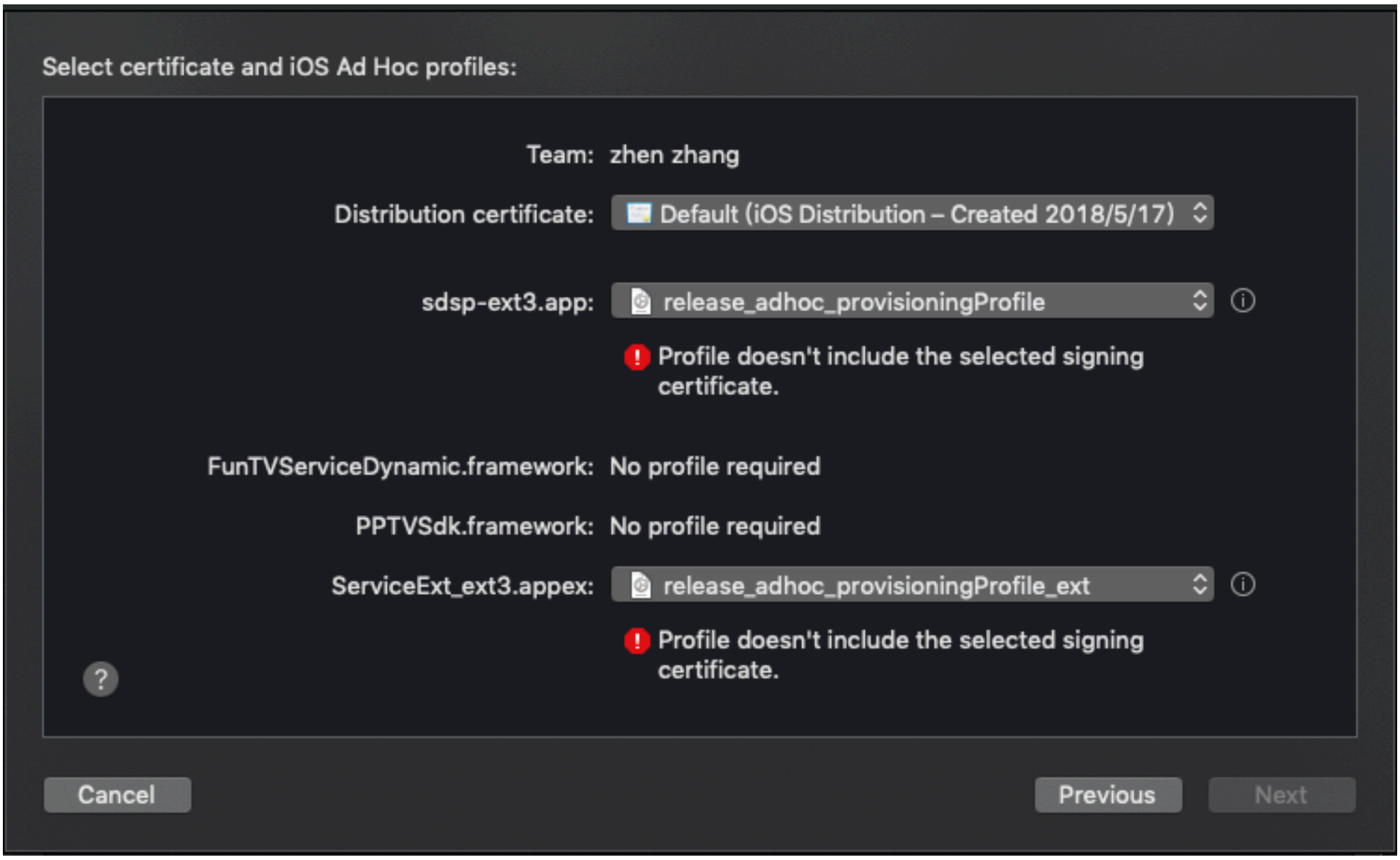
选择 最新：expireTime：Sep 27，2019.

4. Select Device： all

5. The name you provide will be used to identify the profile in the portal.

```
Profile Name:        release_adhoc_provisioningProfile
Type:                iOS Distribution
App ID:              ysdq2018 (BBRGPZXSLA.com.ysdqTV.iphone.client)
Certificates:        1Included
Devices:             50Included


Profile Name:        release_adhoc_provisioningProfile_ext
Type:                iOS Distribution
App ID:              XC com ysdqTV iphone client ServiceExt-ext3 (BBRGPZXSLA.
com.ysdqTV.iphone.client.ServiceExt-ext3)
Certificates:        1Included
Devices:             50Included
```



Select certificate and iOS Ad Hoc profiles:

Team: zhen zhang

Distribution certificate: Default (iOS Distribution – Created 2018/5/17)

sdsp-ext3.app: release_adhoc_provisioningProfile

Profile doesn't include the selected signing certificate.

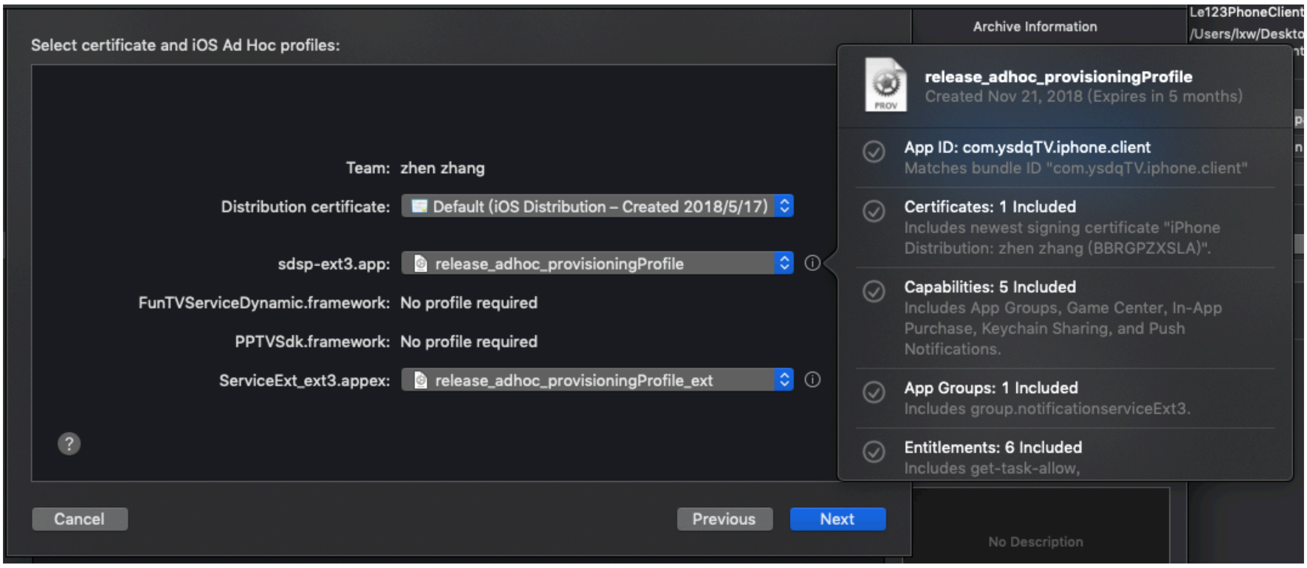
FunTVServiceDynamic.framework: No profile required

PPTVSdk.framework: No profile required

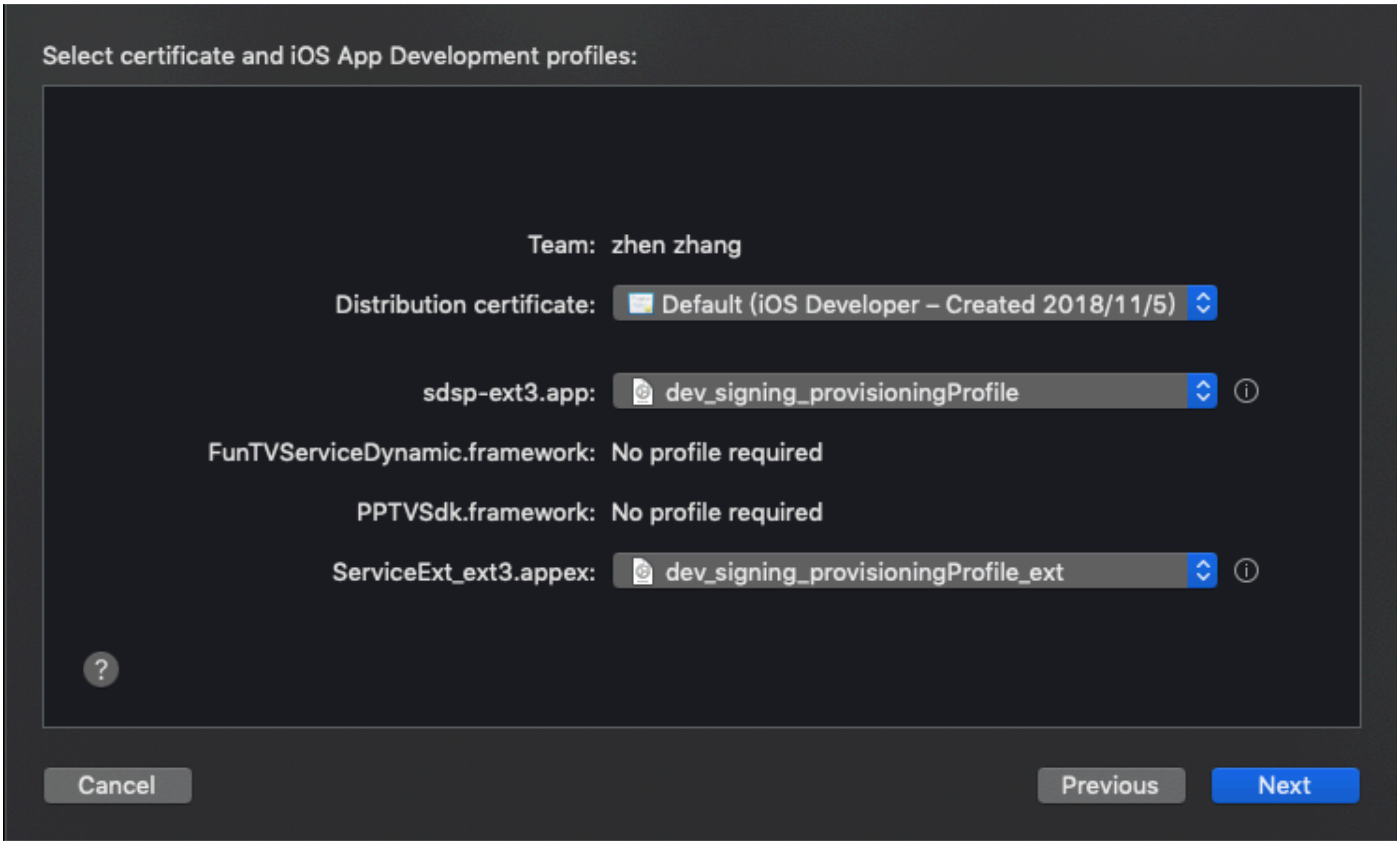
ServiceExt_ext3.appex: release_adhoc_provisioningProfile_ext

Profile doesn't include the selected signing certificate.

Sep 27，2019. 证书与配置文件不一致。

> 更改为May 17， 2019 证书配置文件一致，可以打adhoc包。
>
> 
>
> Select certificate and iOS Ad Hoc profiles:
>
> Team: zhen zhang
>
> Distribution certificate: Default (iOS Distribution – Created 2018/5/17)
>
> sdsp-ext3.app: release_adhoc_provisioningProfile
>
> FunTVServiceDynamic.framework: No profile required
>
> PPTVSdk.framework: No profile required
>
> ServiceExt_ext3.appex: release_adhoc_provisioningProfile_ext
>
> release_adhoc_provisioningProfile
> Created Nov 21, 2018 (Expires in 5 months)
>
> App ID: com.ysdqTV.iphone.client
> Matches bundle ID "com.ysdqTV.iphone.client"
>
> Certificates: 1 Included
> Includes newest signing certificate "iPhone Distribution: zhen zhang (BBRGPZXSLA)".
>
> Capabilities: 5 Included
> Includes App Groups, Game Center, In-App Purchase, Keychain Sharing, and Push Notifications.
>
> App Groups: 1 Included
> Includes group.notificationserviceExt3.
>
> Entitlements: 6 Included
> Includes get-task-allow,
>
>
>
> 给debug_adhoc 包发送推送，没有收到推送通知?
> 原因待查看中。 >> 寻找个推技术验证问题。
> 【debug_adhoc_false】

release —— develoment包



Select certificate and iOS App Development profiles:

Team: zhen zhang

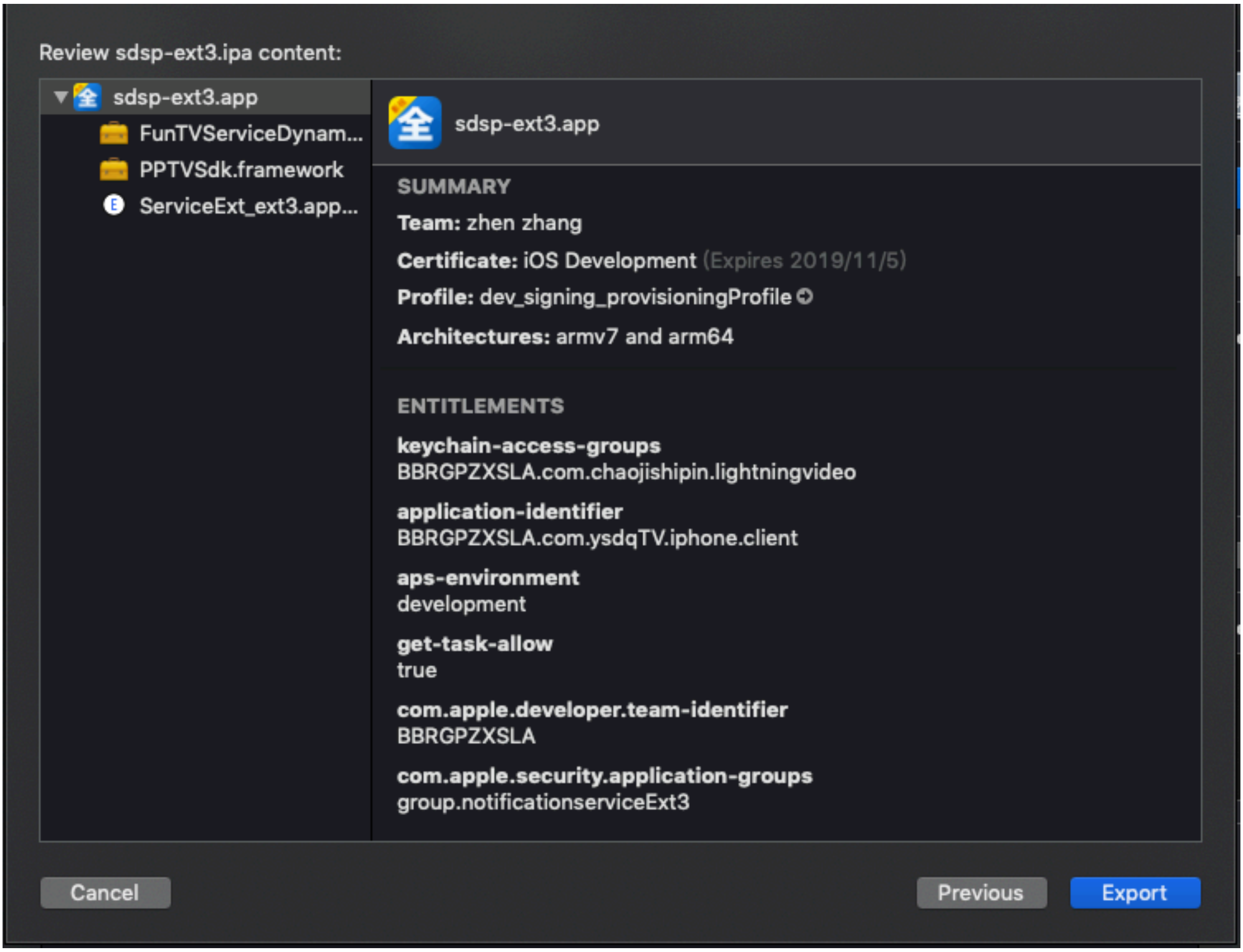
Distribution certificate: Default (iOS Developer – Created 2018/11/5)

sdsp-ext3.app: dev_signing_provisioningProfile

FunTVServiceDynamic.framework: No profile required

PPTVSdk.framework: No profile required

ServiceExt_ext3.appex: dev_signing_provisioningProfile_ext



Review sdsp-ext3.ipa content:

SUMMARY

Team: zhen zhang

Certificate: iOS Development (Expires 2019/11/5)

Profile: dev_signing_provisioningProfile

Architectures: armv7 and arm64

ENTITLEMENTS

keychain-access-groups
BBRGPZXSLA.com.chaojishipin.lightningvideo

application-identifier
BBRGPZXSLA.com.ysdqTV.iphone.client

aps-environment
development

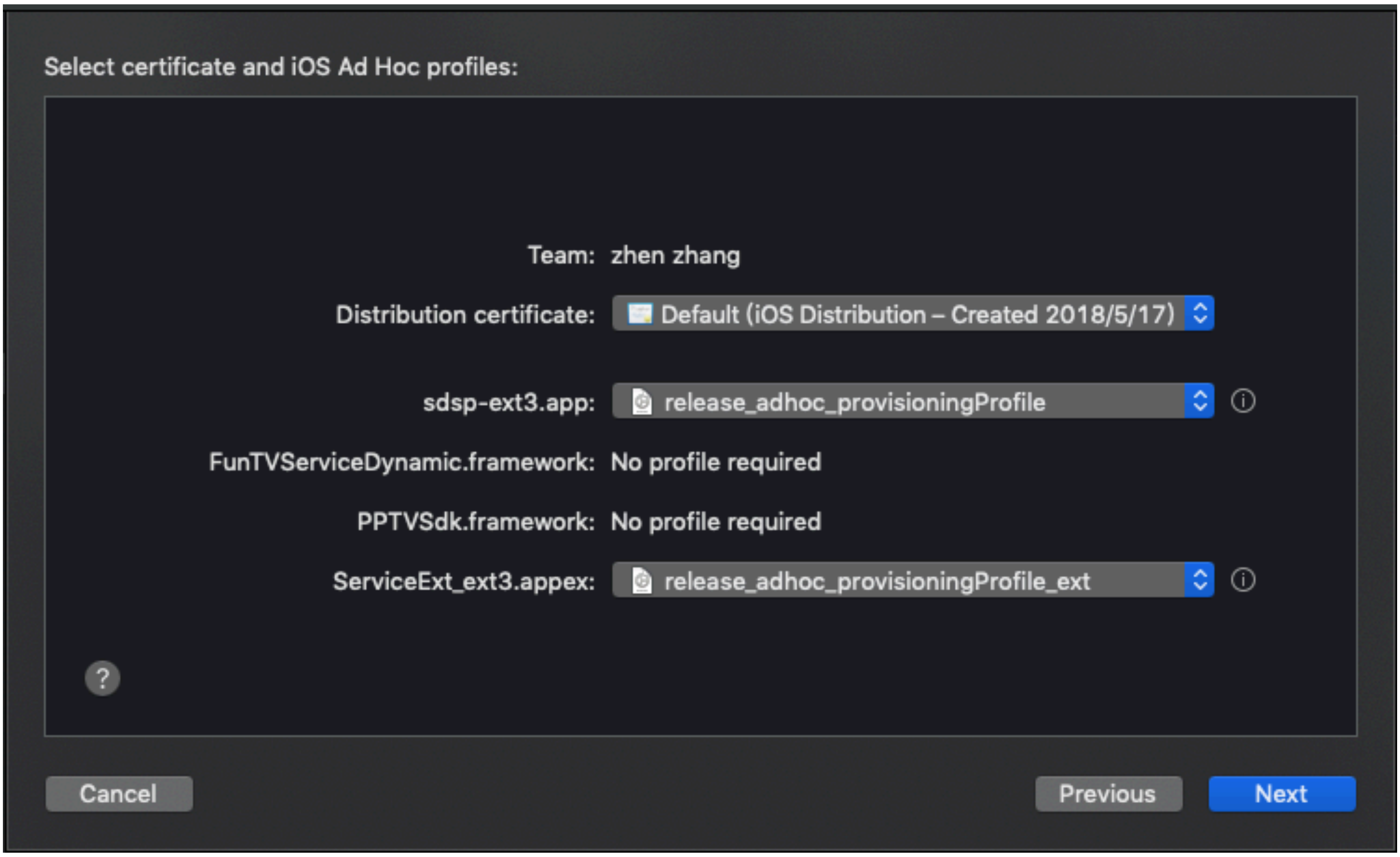
get-task-allow
true

com.apple.developer.team-identifier
BBRGPZXSLA

com.apple.security.application-groups
group.notificationserviceExt3

> 在release环境下推送，包收到了推送消息，但是没有经过Extension处理的消息？重新打包确认Extension处理生效。
> [release_development_ok]

release —— adhoc包



Select certificate and iOS Ad Hoc profiles:

Team: zhen zhang

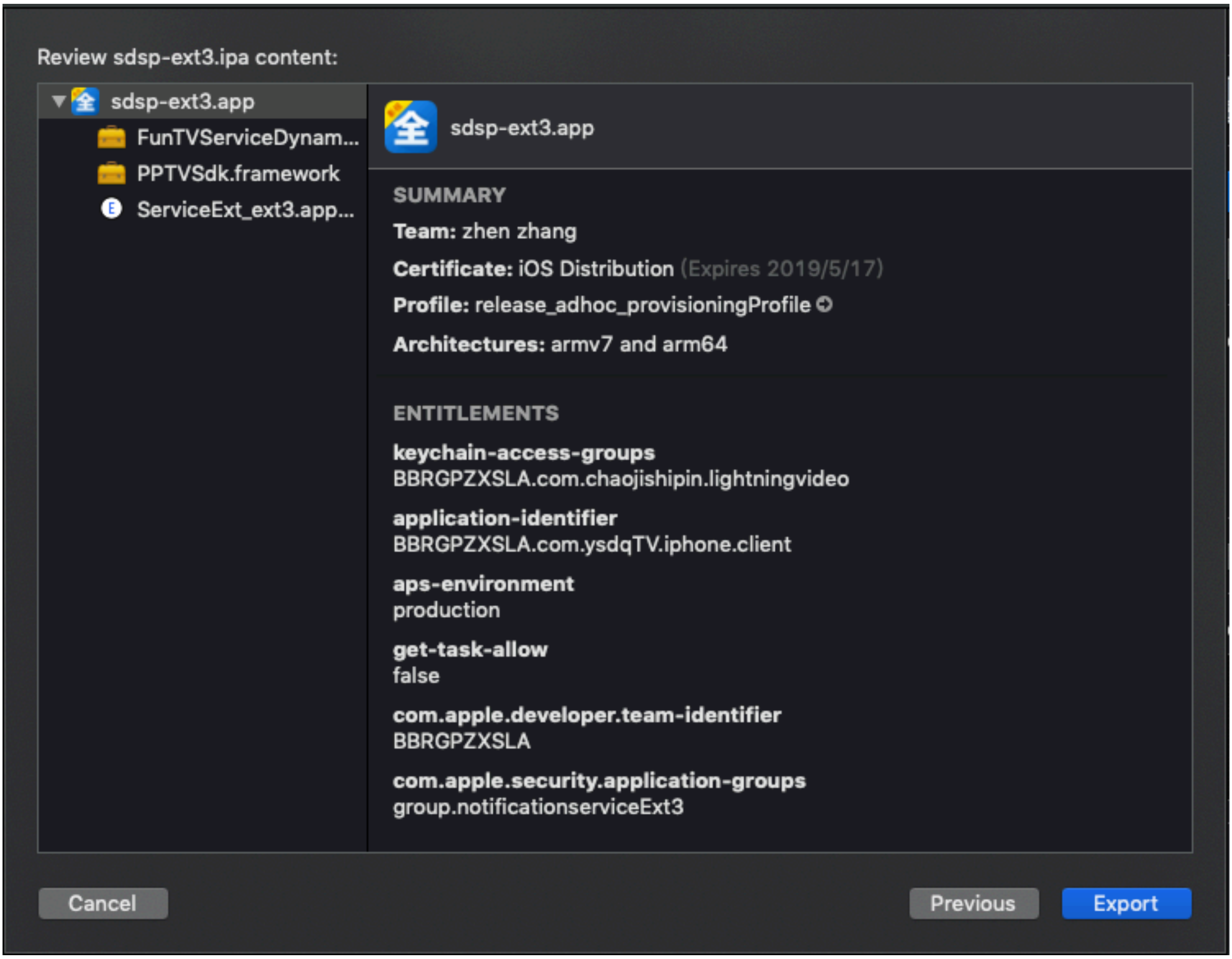
Distribution certificate: Default (iOS Distribution – Created 2018/5/17)

sdsp-ext3.app: release_adhoc_provisioningProfile

FunTVServiceDynamic.framework: No profile required

PPTVSdk.framework: No profile required

ServiceExt_ext3.appex: release_adhoc_provisioningProfile_ext



Review sdsp-ext3.ipa content:

SUMMARY

Team: zhen zhang

Certificate: iOS Distribution (Expires 2019/5/17)

Profile: release_adhoc_provisioningProfile

Architectures: armv7 and arm64

ENTITLEMENTS

keychain-access-groups
BBRGPZXSLA.com.chaojishipin.lightningvideo

application-identifier
BBRGPZXSLA.com.ysdqTV.iphone.client

aps-environment
production

get-task-allow
false

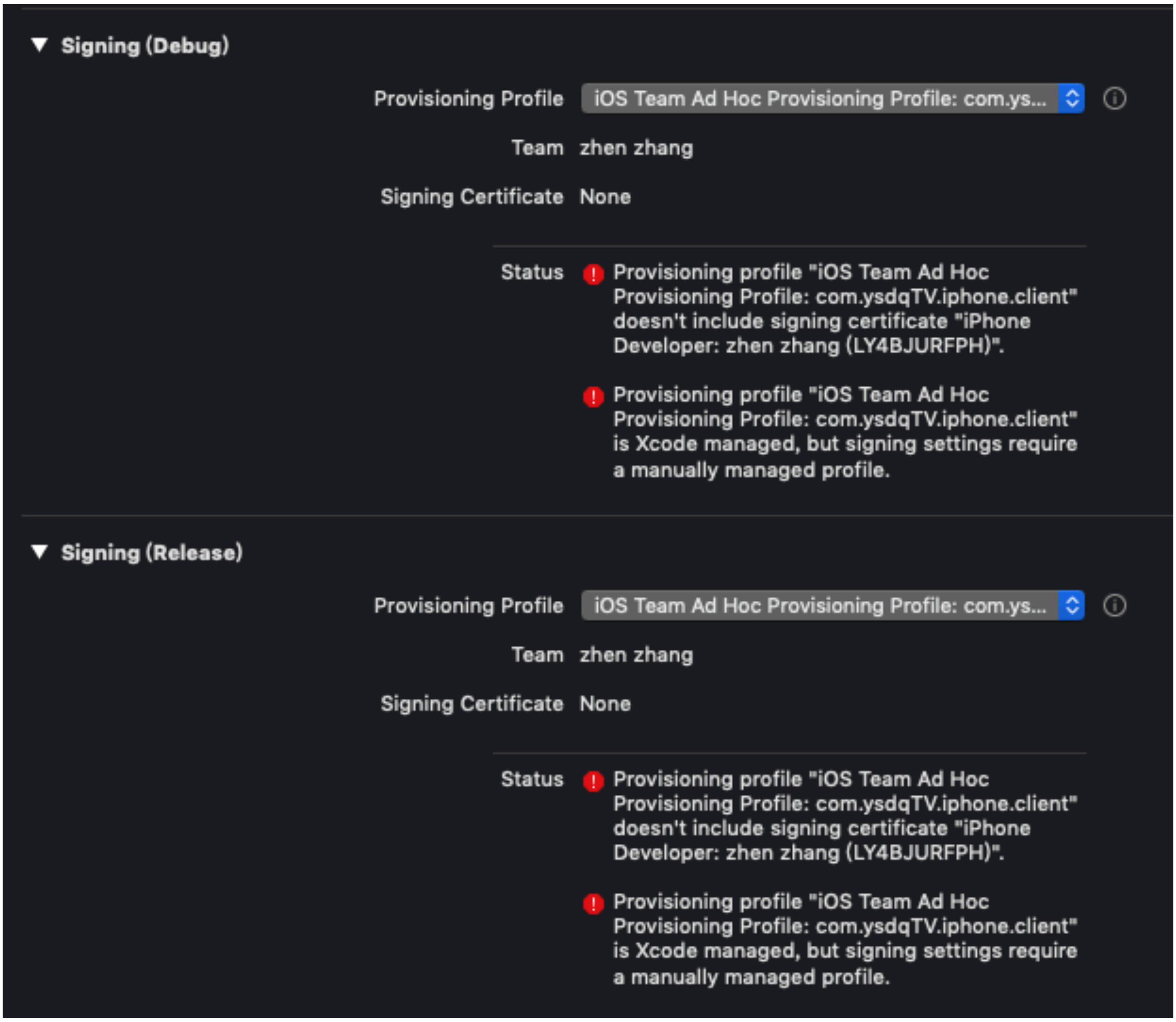
com.apple.developer.team-identifier
BBRGPZXSLA

com.apple.security.application-groups
group.notificationserviceExt3

> > 在release环境下推送，包收到了推送消息，并且extention推送生效。【release_adhoc_ok】
>
> 对比打包证书：adhoc包与development包，所用的证书日期不一致。

》使用Xcode Automatically manage signing， 打包测试：
release_adhoc_autoProfile: 推送消息没有收到。
release_development_autoProfile:推送消息收到 并且效果为Extension处理过的。

TODO: 查找Xcode adhoc使用的autoProfile文件， 重命名手动引入查看打包过程及效果：



▼ Signing (Debug)

Provisioning Profile: iOS Team Ad Hoc Provisioning Profile: com.ys...

Team: zhen zhang

Signing Certificate: None

Status: ! Provisioning profile "iOS Team Ad Hoc Provisioning Profile: com.ysdqTV.iphone.client" doesn't include signing certificate "iPhone Developer: zhen zhang (LY4BJURFPH)".

! Provisioning profile "iOS Team Ad Hoc Provisioning Profile: com.ysdqTV.iphone.client" is Xcode managed, but signing settings require a manually managed profile.

▼ Signing (Release)

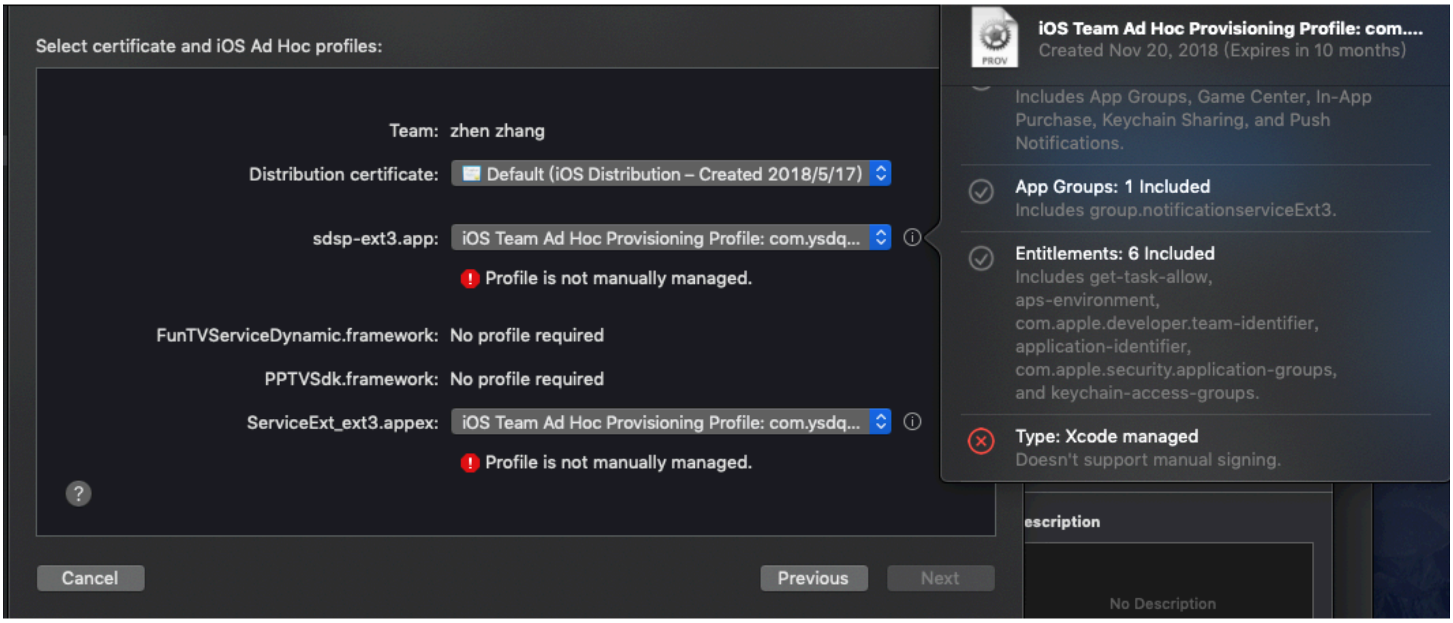
Provisioning Profile: iOS Team Ad Hoc Provisioning Profile: com.ys...

Team: zhen zhang

Signing Certificate: None

Status: ! Provisioning profile "iOS Team Ad Hoc Provisioning Profile: com.ysdqTV.iphone.client" doesn't include signing certificate "iPhone Developer: zhen zhang (LY4BJURFPH)".

! Provisioning profile "iOS Team Ad Hoc Provisioning Profile: com.ysdqTV.iphone.client" is Xcode managed, but signing settings require a manually managed profile.



Select certificate and iOS Ad Hoc profiles:

Team: zhen zhang

Distribution certificate: Default (iOS Distribution – Created 2018/5/17)

sdsp-ext3.app: iOS Team Ad Hoc Provisioning Profile: com.ysdq...

! Profile is not manually managed.

FunTVServiceDynamic.framework: No profile required

PPTVSdk.framework: No profile required

ServiceExt_ext3.appex: iOS Team Ad Hoc Provisioning Profile: com.ysdq...

! Profile is not manually managed.

iOS Team Ad Hoc Provisioning Profile: com....
Created Nov 20, 2018 (Expires in 10 months)

Includes App Groups, Game Center, In-App Purchase, Keychain Sharing, and Push Notifications.

App Groups: 1 Included
Includes group.notificationserviceExt3.

Entitlements: 6 Included
Includes get-task-allow, aps-environment, com.apple.developer.team-identifier, application-identifier, com.apple.security.application-groups, and keychain-access-groups.

Type: Xcode managed
Doesn't support manual signing.

结论，使用手动配置文件打包，都可以通过。

> Xcode自动配置adhocProfile, 不能用于手动配置操作。无法验证效果

真机联调效果（development_ok）

手动配置文件以及XcodeAutoProfile均OK。

打包效果

手动创建配置文件Profile：

【release_development_ok】
【release_adhoc_ok】
【debug_development_ok】
【debug_adhoc_false】

Xcode 自动配置Profile：

【release_development_false】
【release_adhoc_false】
【debug_development_false】
【debug_adhoc_false】

打测试包：

p4:

1. debug_development_p4
2. release_adhoc_p4
3. release_appstore_p4

p5:

1. debug_development_p5
2. release_adhoc_p5
3. release_appstore_p5

pad:

1. debug_development_pad
2. release_adhoc_pad
3. release_appstore_pad

notiServiceExt3 创建

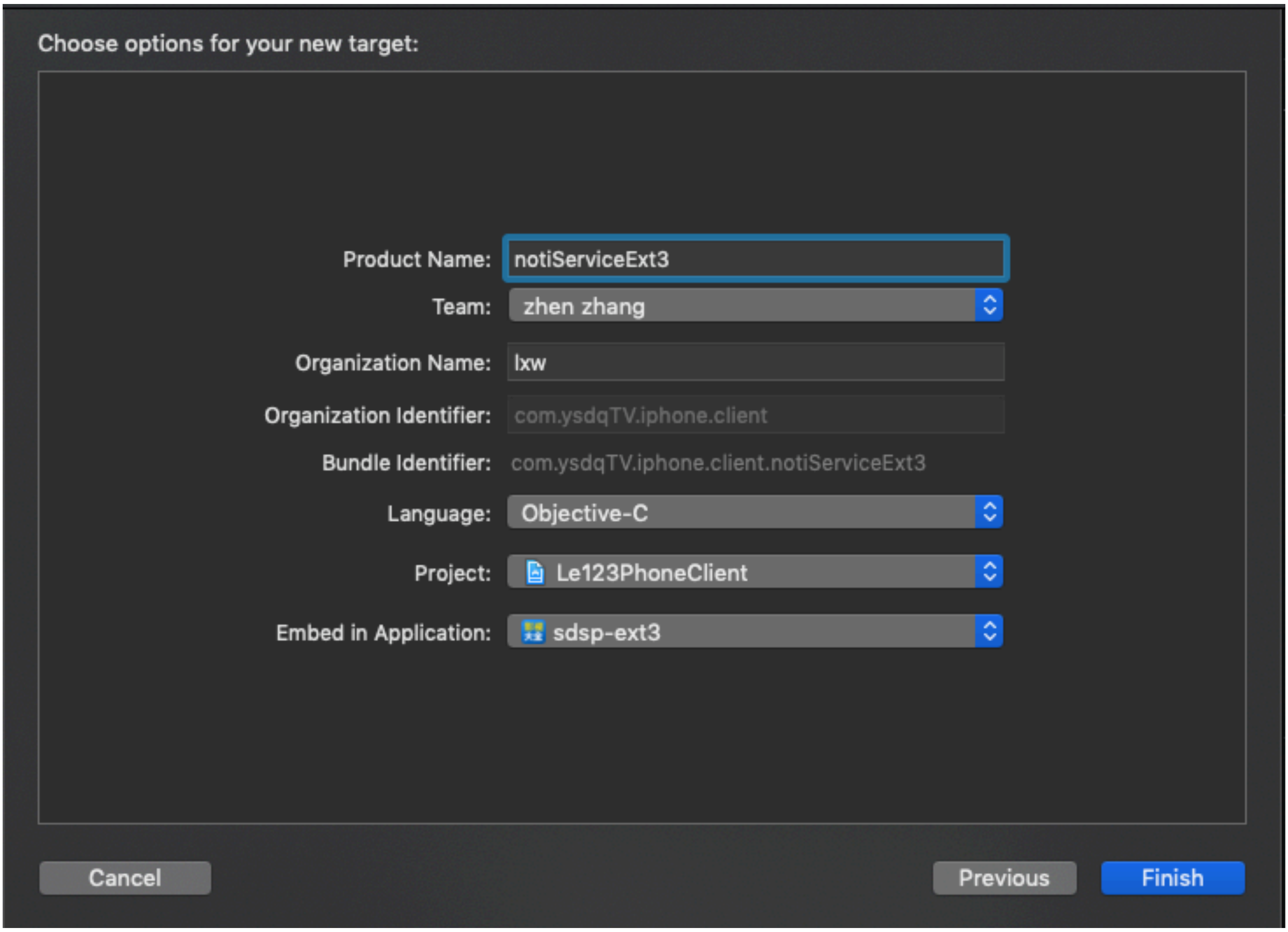
账号讯息

- iOS个人4开发者账号信息
- 账号：ios1@tv365.net
- Team-Agent：zhen zhang ### 步骤 App Group ID: group.notiservice.appgroups.ext3 TARGET_VALUE=10.

一、创建target notiServiceExt3

Xcode >> File >> New >> Target >> iOS >> Notification Service Extension

Choose Options for your new target



Choose options for your new target:

Product Name: notiServiceExt3

Team: zhen zhang

Organization Name: lxw

Organization Identifier: com.ysdqTV.iphone.client

Bundle Identifier: com.ysdqTV.iphone.client.notiServiceExt3

Language: Objective-C

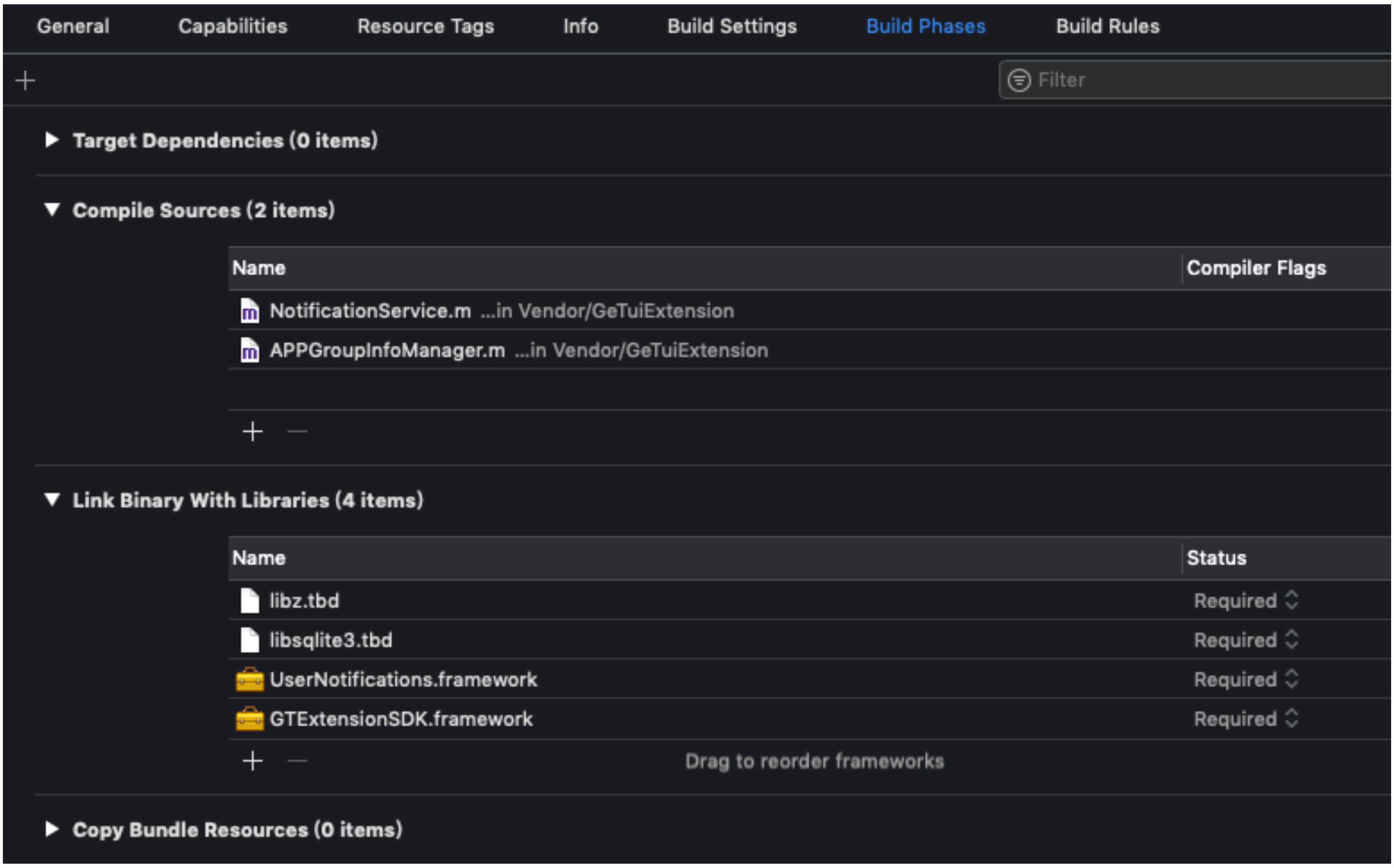
Project: Le123PhoneClient

Embed in Application: sdsp-ext3

工程文件配置

Linked Frameworks and Libraries

1. Build Phases >> Link Binary with Libraries
2. Build Phases >> Compile Sources（2 items）



▶ Target Dependencies (0 items)

▼ Compile Sources (2 items)

Name	Compiler Flags
NotificationService.m ...in Vendor/GeTuiExtension	
APPGroupInfoManager.m ...in Vendor/GeTuiExtension	

▼ Link Binary With Libraries (4 items)

Name	Status
libz.tbd	Required
libsqlite3.tbd	Required
UserNotifications.framework	Required
GTExtensionSDK.framework	Required

Drag to reorder frameworks

▶ Copy Bundle Resources (0 items)

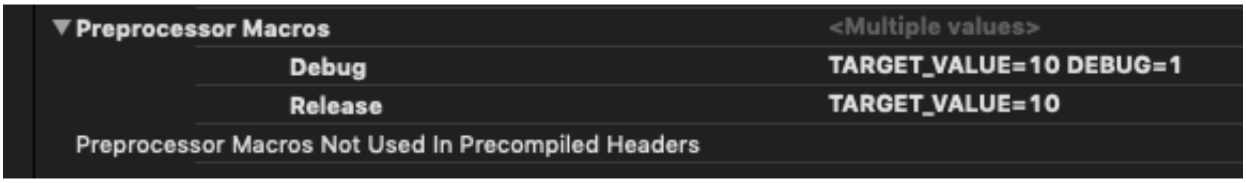
Plist configure

添加 App Transport Security Settings >> Allow Arbitrary Loads >> YES

Deployment Info

Deployment Target: 10.0 , Devices:iPhone

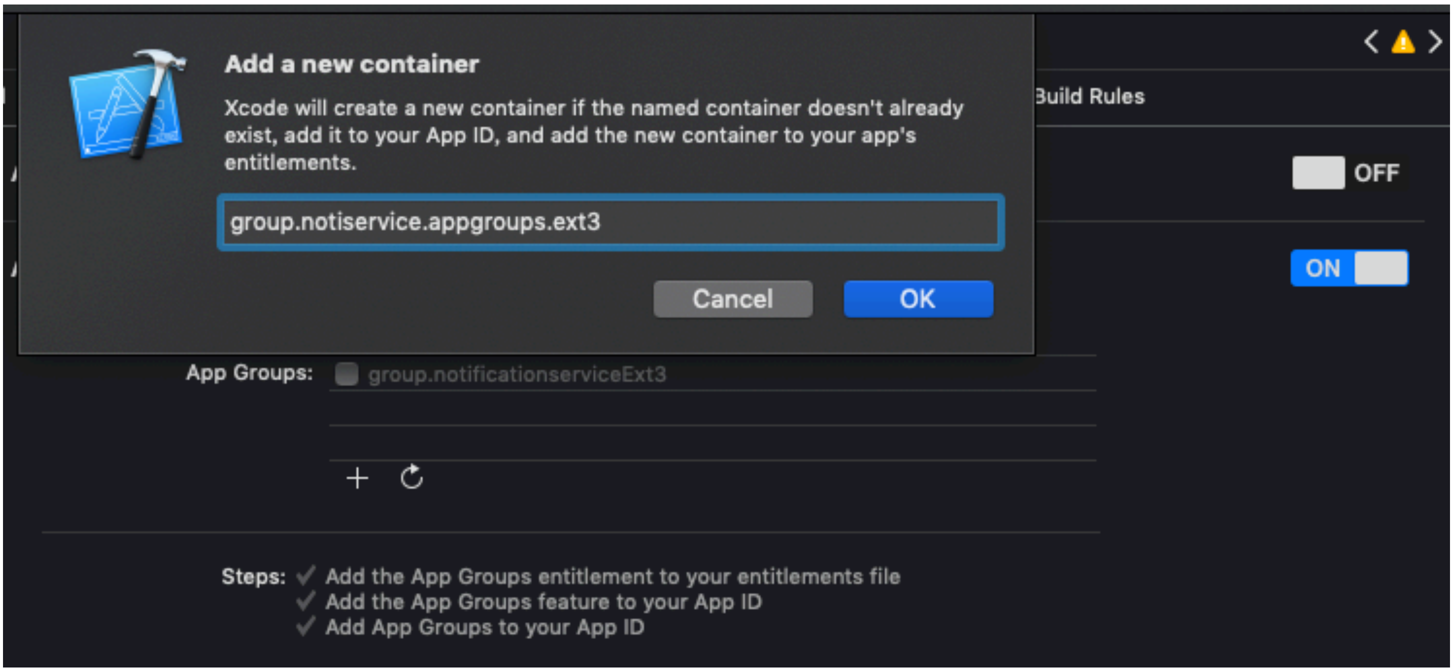
Preprocessor Macros



▼ Preprocessor Macros	<Multiple values>
Debug	TARGET_VALUE=10 DEBUG=1
Release	TARGET_VALUE=10
Preprocessor Macros Not Used In Precompiled Headers	

Capbilities

分别在Target_ext3 和 Target_notiserviceExt3 添加 App Groups
App Groups >> add



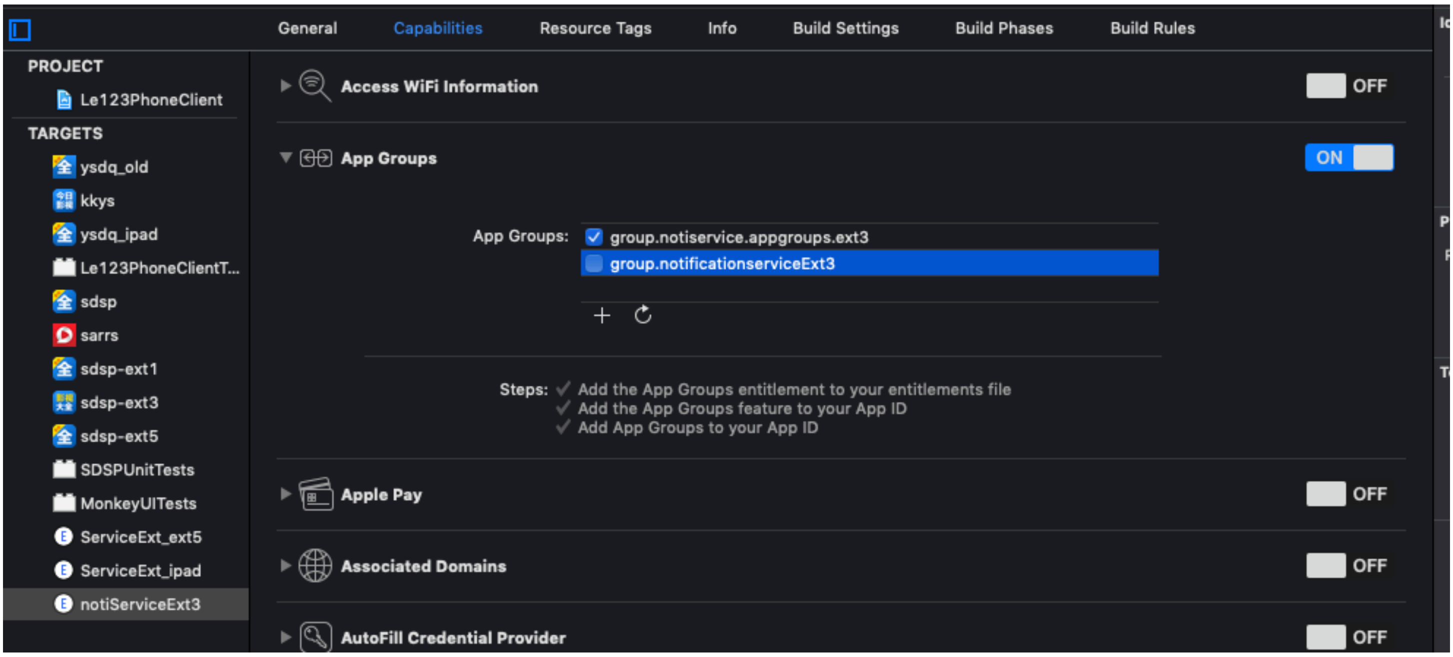
Add a new container

Xcode will create a new container if the named container doesn't already exist, add it to your App ID, and add the new container to your app's entitlements.

group.notiservice.appgroups.ext3

App Groups: □ group.notificationserviceExt3

Steps: ✓ Add the App Groups entitlement to your entitlements file
✓ Add the App Groups feature to your App ID
✓ Add App Groups to your App ID



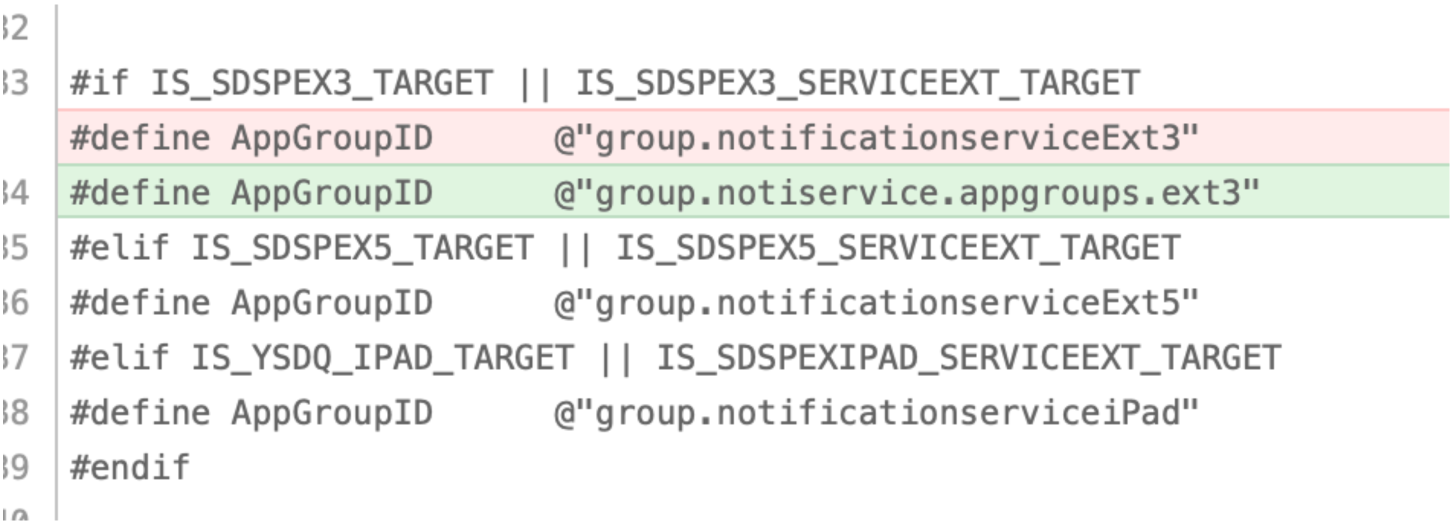
App Groups: ☑ group.notiservice.appgroups.ext3
□ group.notificationserviceExt3

Steps: ✓ Add the App Groups entitlement to your entitlements file
✓ Add the App Groups feature to your App ID
✓ Add App Groups to your App ID

完成步骤之后 直接debug 测试

sdsp-ext3_RUN(Debug) 能够收到通知，

点击通知，发现appGroup无存储通知讯息，进行如下修改：



```
#if IS_SDSPEX3_TARGET || IS_SDSPEX3_SERVICEEXT_TARGET
#define AppGroupID      @"group.notificationserviceExt3"
#define AppGroupID      @"group.notiservice.appgroups.ext3"
#elif IS_SDSPEX5_TARGET || IS_SDSPEX5_SERVICEEXT_TARGET
#define AppGroupID      @"group.notificationserviceExt5"
#elif IS_YSDQ_IPAD_TARGET || IS_SDSPEXIPAD_SERVICEEXT_TARGET
#define AppGroupID      @"group.notificationserviceiPad"
#endif
```

> 再次进行测试，appGroups 共享数据生效。

Target文件路径配置 notiServiceExt3 >> Build Settings >>

1. Info.plist File 修改如下：
   $(SRCROOT)/Le123PhoneClient/Targets/notiServiceExt3/Info.plist

2. Code Signing Entitlements 修改如下：

3. targe 文件路径移动之后需要 重新勾选 App Groups。

> 补充 TODO: 删除原有AppGroupID : **group.notificationserviceExt3**.

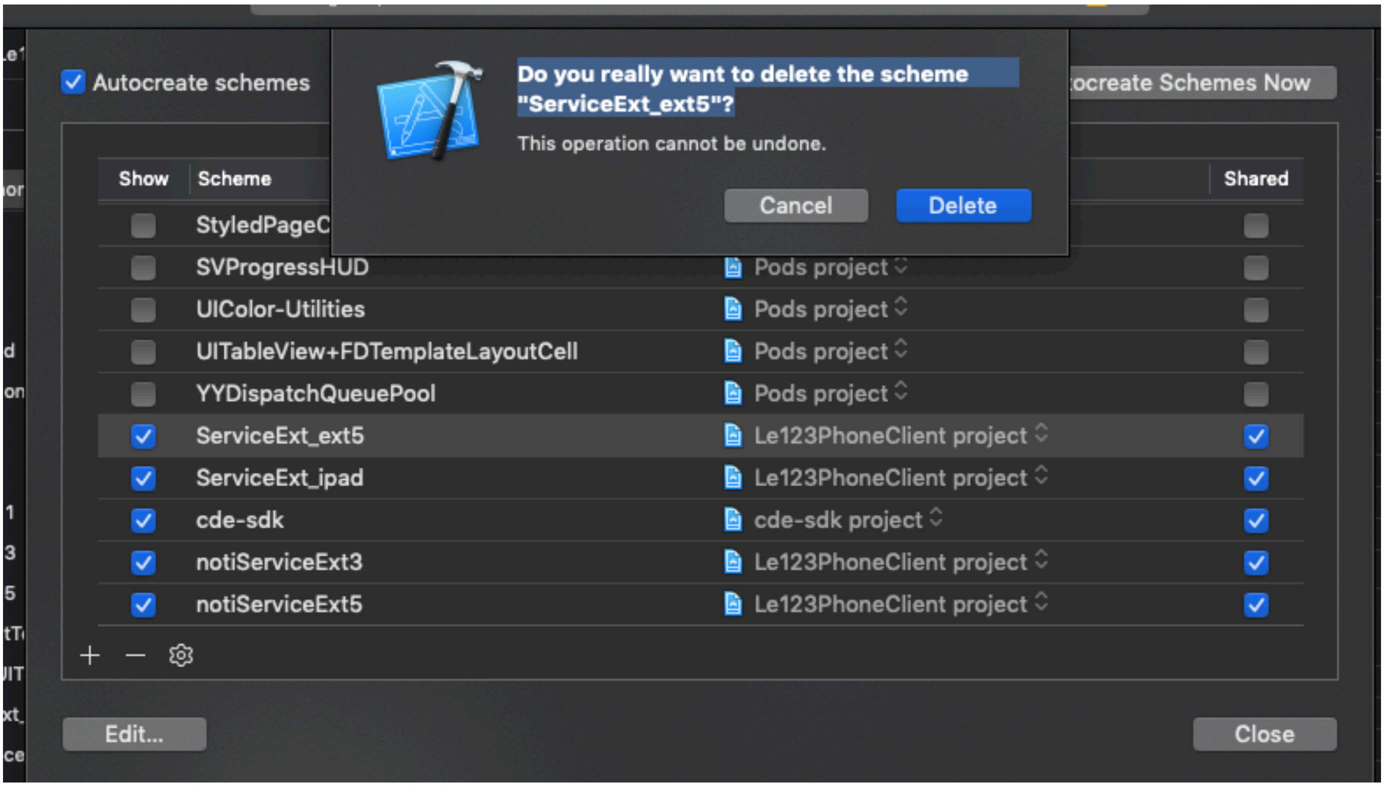
调整文件路径之后进行debug联机测试：

通知拓展 :OK
App Groups : OK

notiServiceExt5 创建

删除旧版本：

1. Targets >> choose ServiceExt_ext5 >> 点击删减符号 —。
2. Manage Schemes >> choose ServiceExt_ext5 >> 点击删减符号 —。



☑ Autocreate schemes

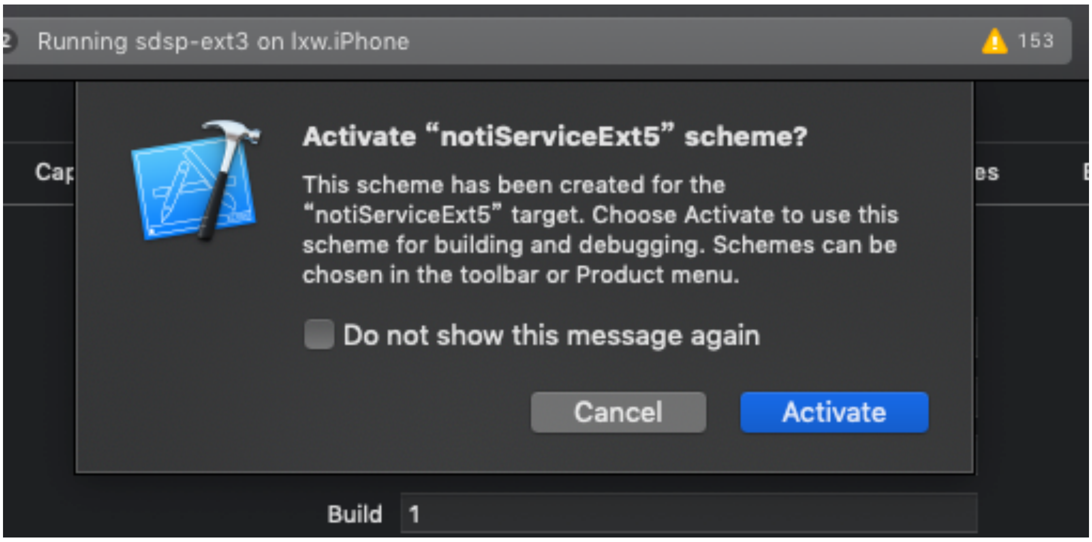
Do you really want to delete the scheme "ServiceExt_ext5"?

This operation cannot be undone.

Show	Scheme		Shared
□	StyledPageC		□
□	SVProgressHUD	Pods project	□
□	UIColor-Utilities	Pods project	□
□	UITableView+FDTemplateLayoutCell	Pods project	□
□	YYDispatchQueuePool	Pods project	□
☑	ServiceExt_ext5	Le123PhoneClient project	☑
☑	ServiceExt_ipad	Le123PhoneClient project	☑
☑	cde-sdk	cde-sdk project	☑
☑	notiServiceExt3	Le123PhoneClient project	☑
☑	notiServiceExt5	Le123PhoneClient project	☑

账号讯息

- iOS个人5开发者账号信息
- 账号：product2@tv365.net
- Team-Agent：Guangyi Liu ### 步骤 > 同个人4操作。



Running sdsp-ext3 on lxw.iPhone

Activate "notiServiceExt5" scheme?

This scheme has been created for the "notiServiceExt5" target. Choose Activate to use this scheme for building and debugging. Schemes can be chosen in the toolbar or Product menu.

□ Do not show this message again

Build 1

Activate. App Group ID: group.notiservice.appgroups.ext5 TARGET_VALUE=11.

测试效果：OK

个推拓展SDK接入

目标：精确上报统计

1. 增加启动应用通知授权上报。
2. 精确个推SDK统计通知消息抵达数。
3. 精确个推统计用户自定义回执(900010-曝光，900011-点击)
4. 精确应用客户端统计统计(曝光数，和点击数)

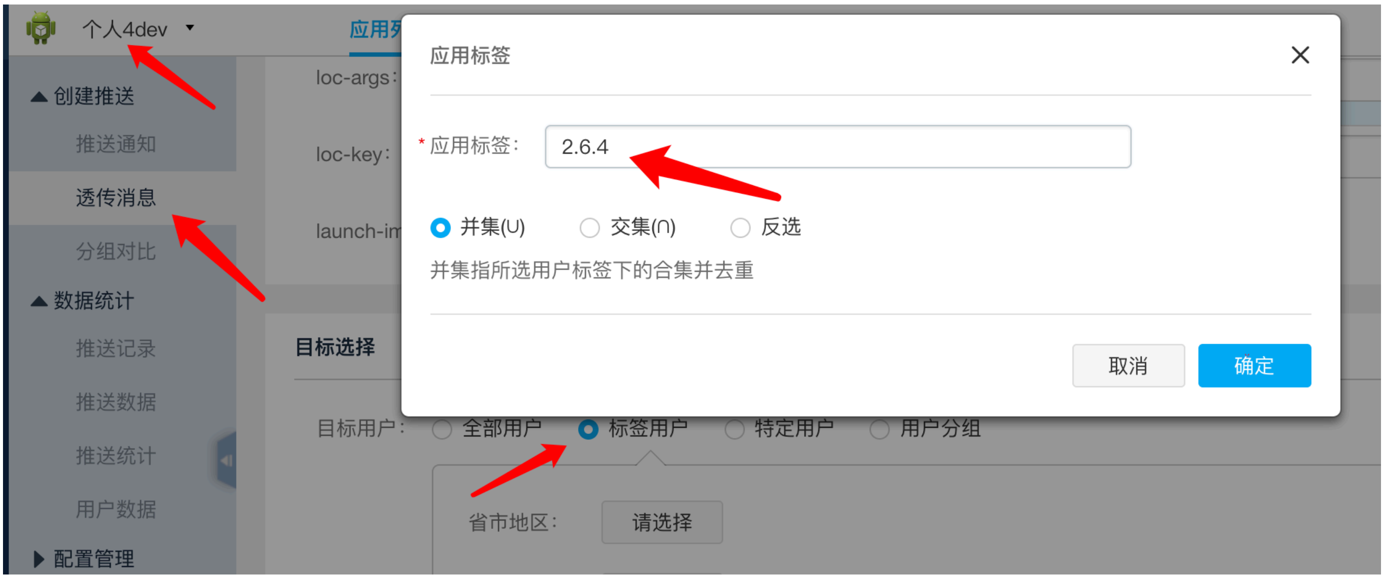
客户端推送上报文档wiki

个人四Debug包上报数据示例

1. 设备设置代理抓包链接Charles
2. 安装测试包，打开一次应用(会有通知注册机注册授权上报)

1.上个推平台

1. 先不要激活客户端应用(应用杀死，或者退到后台)。
2. 选择dev4，
3. 选择iOS透传推送，填写测试推送消息，
4. 添加测试标签(限制推送目标设备)



应用标签

* 应用标签： 2.6.4

● 并集(∪)　○ 交集(∩)　○ 反选

并集指所选用户标签下的合集并去重

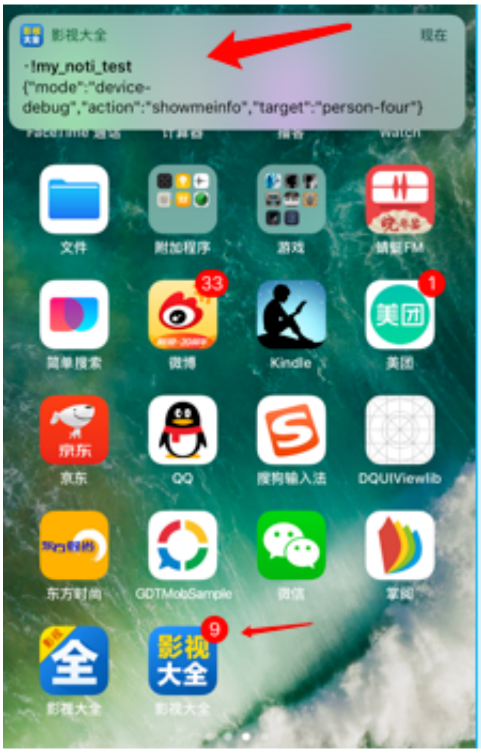
目标用户：○ 全部用户　● 标签用户　○ 特定用户　○ 用户分组

省市地区：

2.发送消息后查看本地

1. 发送消息后一会儿本地应当受到消息（可测试推送消息抵达曝光）。
2. 滑开通知栏点击推送（用于测试推送消息点击,如果直接点击应用打开则无点击上报）

3. 应用激活



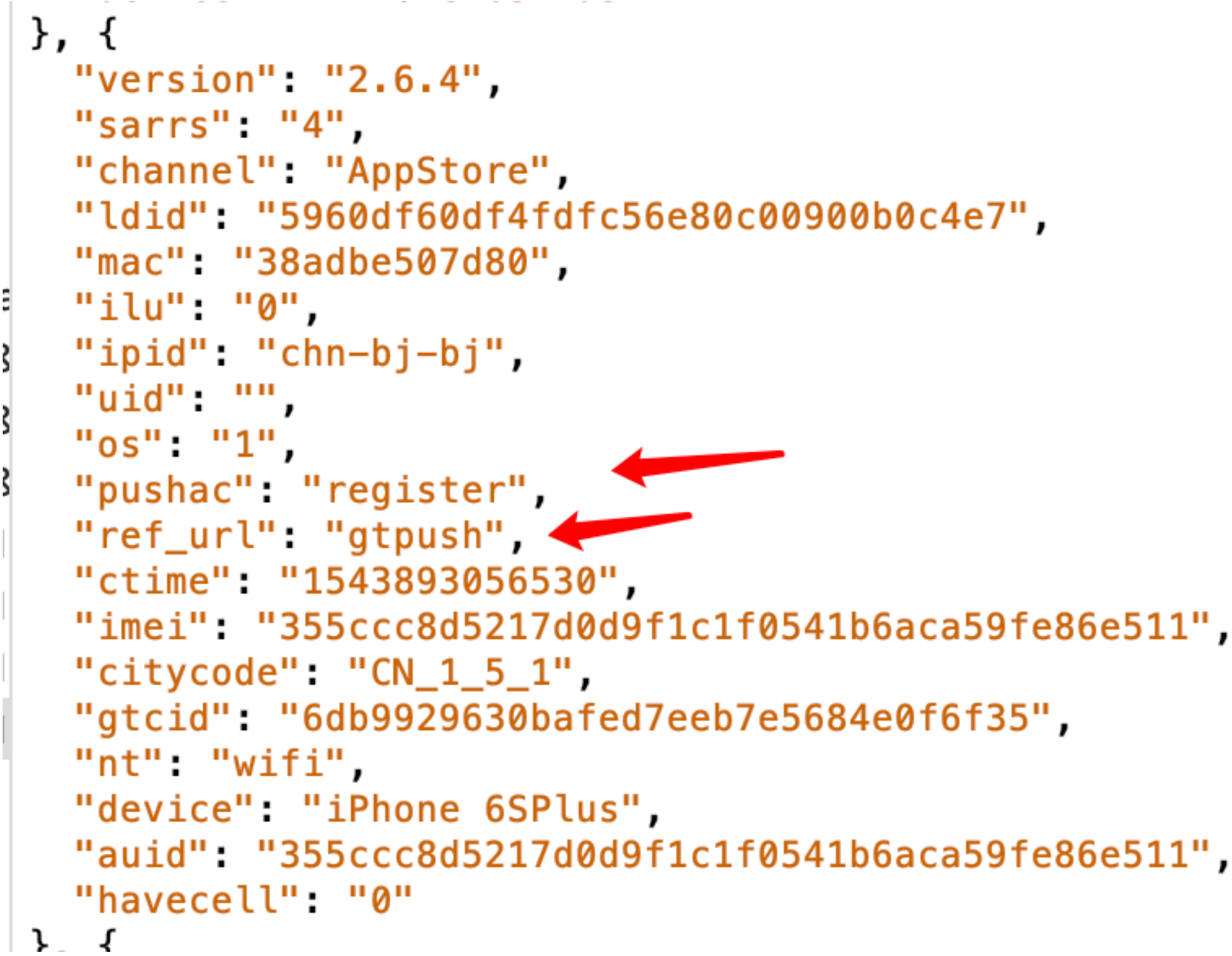
影视大全 现在

-!my_noti_test
{"mode":"device-debug","action":"showmeinfo","target":"person-four"}

3.上报数据查看

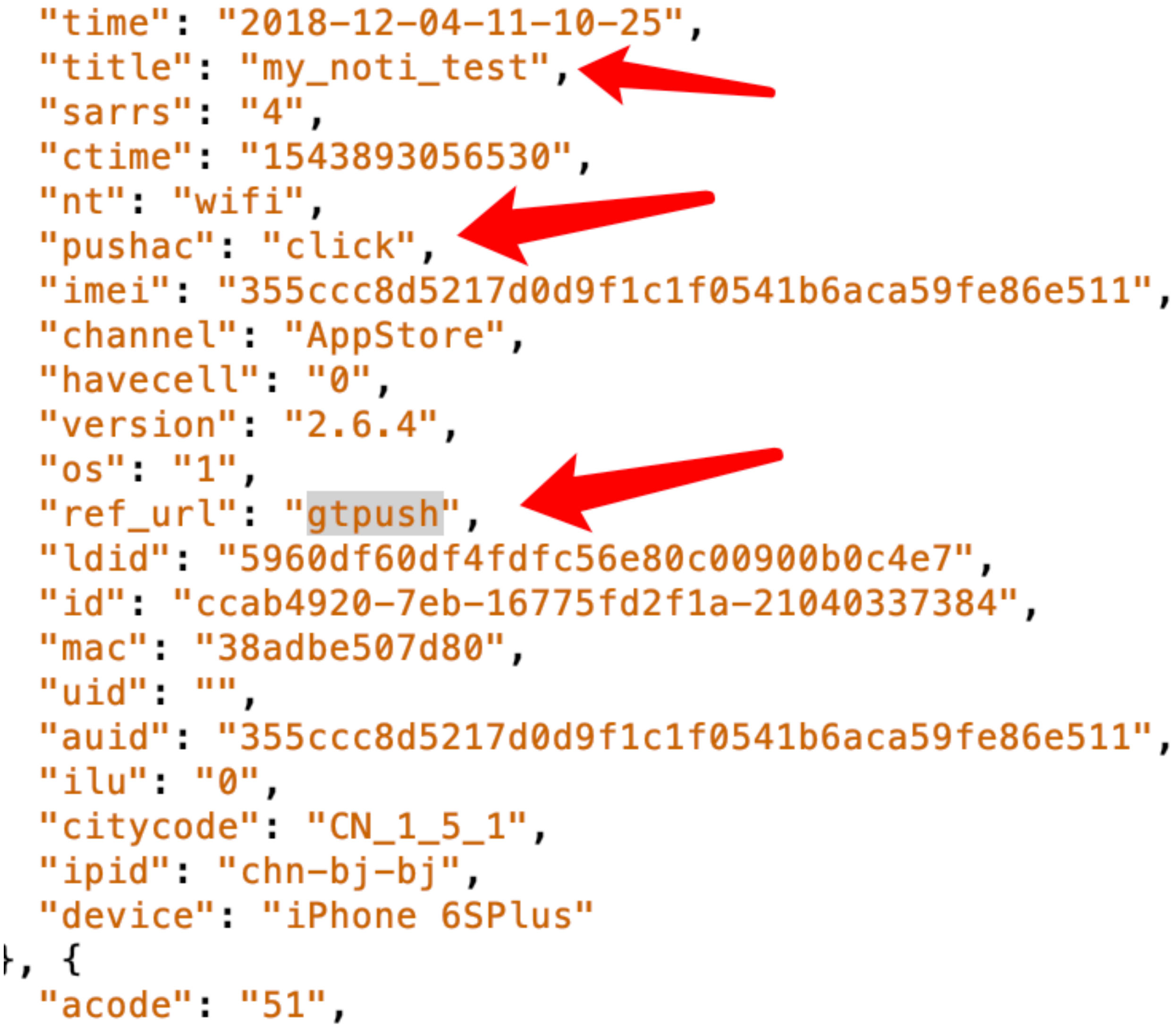
> 此部分上报数据是本地统计的数据，可用于与GeTui那边进行对数验证。

1. 推送授权注册



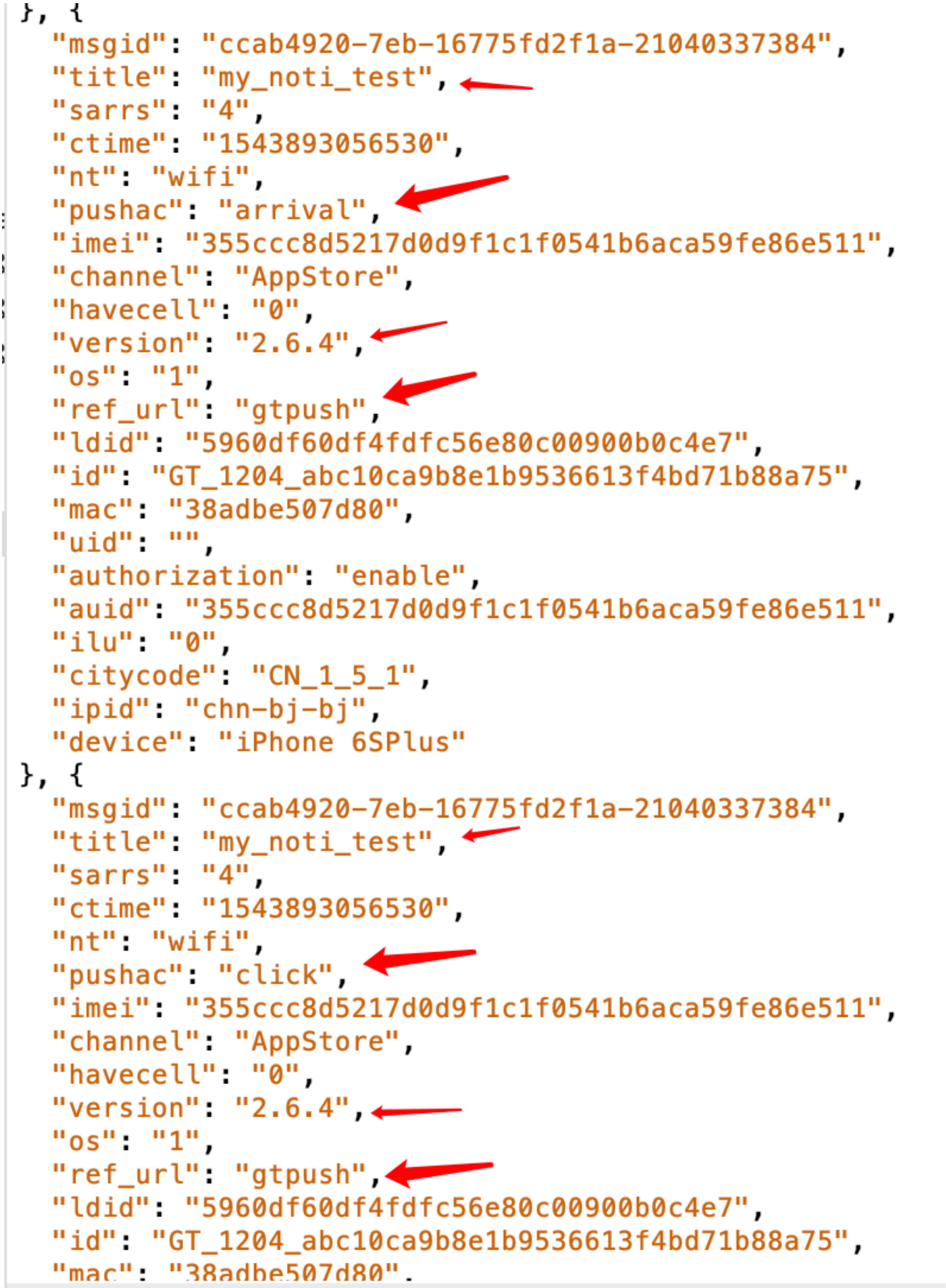
```
}, {
  "version": "2.6.4",
  "sarrs": "4",
  "channel": "AppStore",
  "ldid": "5960df60df4fdfc56e80c00900b0c4e7",
  "mac": "38adbe507d80",
  "ilu": "0",
  "ipid": "chn-bj-bj",
  "uid": "",
  "os": "1",
  "pushac": "register",
  "ref_url": "gtpush",
  "ctime": "1543893056530",
  "imei": "355ccc8d5217d0d9f1c1f0541b6aca59fe86e511",
  "citycode": "CN_1_5_1",
  "gtcid": "6db9929630bafed7eeb7e5684e0f6f35",
  "nt": "wifi",
  "device": "iPhone 6SPlus",
  "auid": "355ccc8d5217d0d9f1c1f0541b6aca59fe86e511",
  "havecell": "0"
}, {
```

2. 点击推送(点击通知栏推送消息):



```
  "time": "2018-12-04-11-10-25",
  "title": "my_noti_test",
  "sarrs": "4",
  "ctime": "1543893056530",
  "nt": "wifi",
  "pushac": "click",
  "imei": "355ccc8d5217d0d9f1c1f0541b6aca59fe86e511",
  "channel": "AppStore",
  "havecell": "0",
  "version": "2.6.4",
  "os": "1",
  "ref_url": "gtpush",
  "ldid": "5960df60df4fdfc56e80c00900b0c4e7",
  "id": "ccab4920-7eb-16775fd2f1a-21040337384",
  "mac": "38adbe507d80",
  "uid": "",
  "auid": "355ccc8d5217d0d9f1c1f0541b6aca59fe86e511",
  "ilu": "0",
  "citycode": "CN_1_5_1",
  "ipid": "chn-bj-bj",
  "device": "iPhone 6SPlus"
}, {
  "acode": "51",
```

3. 推送曝光(客户端通知栏暴露推送消息):



```
}, {
  "msgid": "ccab4920-7eb-16775fd2f1a-21040337384",
  "title": "my_noti_test",
  "sarrs": "4",
  "ctime": "1543893056530",
  "nt": "wifi",
  "pushac": "arrival",
  "imei": "355ccc8d5217d0d9f1c1f0541b6aca59fe86e511",
  "channel": "AppStore",
  "havecell": "0",
  "version": "2.6.4",
  "os": "1",
  "ref_url": "gtpush",
  "ldid": "5960df60df4fdfc56e80c00900b0c4e7",
  "id": "GT_1204_abc10ca9b8e1b9536613f4bd71b88a75",
  "mac": "38adbe507d80",
  "uid": "",
  "authorization": "enable",
  "auid": "355ccc8d5217d0d9f1c1f0541b6aca59fe86e511",
  "ilu": "0",
  "citycode": "CN_1_5_1",
  "ipid": "chn-bj-bj",
  "device": "iPhone 6SPlus"
}, {
  "msgid": "ccab4920-7eb-16775fd2f1a-21040337384",
  "title": "my_noti_test",
  "sarrs": "4",
  "ctime": "1543893056530",
  "nt": "wifi",
  "pushac": "click",
  "imei": "355ccc8d5217d0d9f1c1f0541b6aca59fe86e511",
  "channel": "AppStore",
  "havecell": "0",
  "version": "2.6.4",
  "os": "1",
  "ref_url": "gtpush",
  "ldid": "5960df60df4fdfc56e80c00900b0c4e7",
  "id": "GT_1204_abc10ca9b8e1b9536613f4bd71b88a75",
  "mac": "38adbe507d80",
```

push Info

```
{
pushInfo = {
body = "show you key my key";
errors = (
);
title = "";
userInfo = {
"_ge_" = 1;
"_gmid_" = "GT_1116_4f494301457b99468eaafd9425c7583c:3d0ac84f-83a-1671902a71e-7273733695:8b3fcc213e2df891c141f4d53e308063";
"_gurl_" = "sdk.open.extension.getui.com:8123";
aps = {
alert = {
body = "show you key my key";
};
"mutable-content" = 1;
sound = default;
};
payload = "{"title":"zhanguowusuang","subtitle":"VHCombin","actionType":"100"}\n";
};
};
sel = "configureGetuiNotiContentCacheErrors:";
time = "2018-11-16 15:38:33";
}
```

notes：

1. iOS端推送的流程 1） 检查cid是否在线，如果在线走个推通道（在线，指APP在前台） 2） 如果离线，推给苹果服务器进行推送（离线的原因包括：卸载、后台、杀进程） 上述我的理解是否正确?

离线是后台，杀进程和锁屏，断网，卸载的话，我们请求到苹果那边，苹果会返回不正常，不会算成功下发。

1. 关于个推通道和APNs通道的相关数据
   1）个推通道
   a. 成功下发数据
   =>问题，指服务端检测cid在线可下发消息的设备数，理解是否正确？ 是的
   b. 到达数，指客户端收到消息的数量

=>问题，这里的到达是否包括关闭了通知权限？ 这里的到达就是在线直接走个推的量，是根据客户端返回的到达回执来统计，跟通知权限开启与否没关系
c. 展示数和点击数当前都为0
=>问题，需要我们继承扩展SDK才能统计到吗？ 在线走个推长连接下发是透传消息直接到客户端的，需要客户端做展示和点击处理，这个可以通过自定义事件来协助统计，扩展sdk只做离线状态apns通道的数据统计
自定义事件接口链接：http://docs.getui.com/getui/mobile/ios/api/ 13. 上行第三方自定义回执

2）APNs通道
a. 成功下发数据
=>问题，这里指苹果服务端返回成功的数量吗？ 是的
b. 到达数
=>问题，这个需要我们集成扩展SDK才能统计到吧？是否包含了关闭通知权限的设备数? 是的，到达数取的就是展示数的数据
c. 展示数
=>问题，这个需要我们集成扩展SDK才能统计到吧？指的是真正展示出来的设备数？ 是的，真实的展示数+ios10以下系统的预估值
d. 点击数
=>这里仅指走APNs通道的消息的点击数吗 是的
3）关于点击率的计算
我的理解，点击率=点击数/真正的展示数
所以计算点击率的时候，我需要把走个推通道的和APN通道的点击加起来，再把个推通道和APN通道的展示数据加起来。两者相除来计算是么 是的

47bd12dbee0bff87750439c387530ab048124fb13d0802abce6b79e1f94be51d