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| **`Document History** | | | | |
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| 0.1 | 25-03-2016 | Indrajit Kumar | All | Initial draft |
| 0.2 | 28-04-2016 | Amit Kumar | All | Update interface APIs |
| 0.3 | 10-06-2016 | Indrajit Kumar | Initialization and InApp Purchase API reference | Update interface APIs |
| 0.4 | 29-06-2016 | Indrajit Kumar | InApp Purchase API reference and Cart Icon | Update interface APIs and  Cart icon drawable for vertical proposition use |
| 0.5 | 21/09/2016 | Indrajit Kumar | Initialization and InApp Purchase API reference | Updated interface and initialization wrt uAppFramework |

InApp Purchase Integration

|  |  |
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**DOCUMENT HISTORY**

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# Introduction

This document provides an overview of integration InApp Purchase feature in Android mobile application.

Source Path: [https:// atlas.natlab.research.philips.com/stash/scm/ip/in-app-purchase\_android.git](https://310164421@atlas.natlab.research.philips.com/stash/scm/ip/in-app-purchase_android.git)

# Prerequisites

I. Vertical project is configured for Android Studio

II. Setting->Developer Options->Don’t Keep Activities should be unchecked. [If Developer Mode is on]

III. Android API version should on 10[Gingerbread]



# Library Integration

## Maven repository Integration

The easiest and preferred way to use these components is using maven. Only we need to add maven repositories in app build gradle:

allprojects {  
 repositories {  
 maven { url 'http://maartens-mini.ddns.htc.nl.philips.com:8081/artifactory/jcenter' }  
 maven {  
 url 'http://maartens-mini.ddns.htc.nl.philips.com:8081/artifactory/ext-release-local'  
 }  
 maven {  
 url 'http://maartens-mini.ddns.htc.nl.philips.com:8081/artifactory/libs-release-local-android'  
 }  
 maven {  
 url 'http://maartens-mini.ddns.htc.nl.philips.com:8081/artifactory/libs-stage-local-android'  
 }  
 flatDir {  
 dirs 'libs'  
 }  
 }  
}

## Library Integration

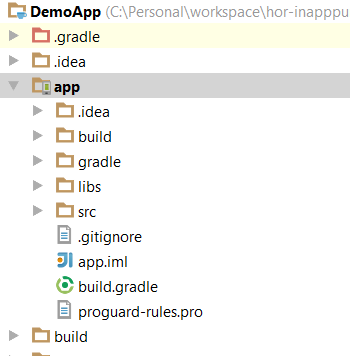
1. Checkout the code from above path wherein developer can find sample app which depends on InApp Purchase care library’s aar file :

[https:// atlas.natlab.research.philips.com/stash/scm/ip/in-app-purchase\_android.git](https://310164421@atlas.natlab.research.philips.com/stash/scm/ip/in-app-purchase_android.git)

1. InApp Purchase needs other libraries to build which are as below
2. User registration

Please make sure all these are added to application with the latest versions along with InApp Purchase library aar file under libs folder.

1. Refer InApp Purchase dependencies along with .aar files in build.gradle as mentioned below :



Note: Since InApp Purchase Android was built with

**com.android.support:appcompat-v7:24.2.0**

**so vertical app support libs should be greater or equal to mentioned versions**

dependencies {  
 compile(**'com.philips.cdp:iap:+**)  
 compile(**'com.philips.cdp:registrationApi:+**)

}

1. Copy InApp Purchase related assets in assets folder from reference app:

**Note: Don’t change or rename folder structure**



Inside the AppConfig.json, app has to configure their host and site such as:

{  
 **"hostport"**: **"tst.pl.shop.philips.com"**,  
 **"propositionid"**: **"Tuscany2016"**}

There are 3 host for providing backend services such as:

1. **Test server: tst.pl.shop.philips.com**
2. **Acceptance server: acc.occ.shop.philips.com**
3. **Production Server:** [**www.occ.shop.philips.com**](http://www.occ.shop.philips.com)
4. Clean project



# Pre Requisites:

1. UserRegisteration initialization: Please refer User registration common component document.
2. AppInfra Initialization :

Create instance of AppInfra and use same instance in whole application.

# INITIALIZATION

We are extending InApp purchase from uAppFramework, So now we have to create instances for IAPLaunchInput, IAPDependencies, IAPSettings, IAPInterface classes as below

**mIapLaunchInput** = **new** IAPLaunchInput();  
**mIapDependencies** = **new** IAPDependencies(**new** AppInfra.Builder().build(**this**));  
**mIAPSettings** = **new** IAPSettings(**this**);

**mIapInterface** = **new** IAPInterface();

## Interfaces

* [**IAPLaunchInput.IAPFlows**](IAPLaunchInput.IAPFlows.html)  
  public static interface **IAPLaunchInput.IAPFlows**

### Field Summary

|  |  |
| --- | --- |
| **Fields** | |
| **Modifier and Type** | **Field and Description** |
| static int | [**IAP\_BUY\_DIRECT\_VIEW**](../../../../../../com/philips/cdp/di/iap/integration/IAPLaunchInput.IAPFlows.html#IAP_BUY_DIRECT_VIEW) |
| static int | [**IAP\_PRODUCT\_CATALOG\_VIEW**](../../../../../../com/philips/cdp/di/iap/integration/IAPLaunchInput.IAPFlows.html#IAP_PRODUCT_CATALOG_VIEW) |
| static int | [**IAP\_PRODUCT\_DETAIL\_VIEW**](../../../../../../com/philips/cdp/di/iap/integration/IAPLaunchInput.IAPFlows.html#IAP_PRODUCT_DETAIL_VIEW) |
| static int | [**IAP\_PURCHASE\_HISTORY\_VIEW**](../../../../../../com/philips/cdp/di/iap/integration/IAPLaunchInput.IAPFlows.html#IAP_PURCHASE_HISTORY_VIEW) |
| static int | [**IAP\_SHOPPING\_CART\_VIEW**](../../../../../../com/philips/cdp/di/iap/integration/IAPLaunchInput.IAPFlows.html#IAP_SHOPPING_CART_VIEW) |

## Classes

* [**IAPDependencies**](IAPDependencies.html)

### Constructor Summary

|  |
| --- |
| **Constructors** |
| **Constructor and Description** |
| [**IAPDependencies**](../../../../../../com/philips/cdp/di/iap/integration/IAPDependencies.html#IAPDependencies-com.philips.platform.appinfra.AppInfraInterface-)(com.philips.platform.appinfra.AppInfraInterface appInfra) |

* [**IAPFlowInput**](IAPFlowInput.html)

### Constructor Summary

|  |
| --- |
| **Constructors** |
| **Constructor and Description** |
| [**IAPFlowInput**](../../../../../../com/philips/cdp/di/iap/integration/IAPFlowInput.html#IAPFlowInput-java.util.ArrayList-)(java.util.ArrayList<java.lang.String> prductCTNs) |
| [**IAPFlowInput**](../../../../../../com/philips/cdp/di/iap/integration/IAPFlowInput.html#IAPFlowInput-java.lang.String-)(java.lang.String productCTN) |

### Method Summary

|  |  |
| --- | --- |
| **All Methods**[**Instance Methods**](javascript:show(2);)[**Concrete Methods**](javascript:show(8);) | |
| **Modifier and Type** | **Method and Description** |
| java.lang.String | [**getProductCTN**](../../../../../../com/philips/cdp/di/iap/integration/IAPFlowInput.html#getProductCTN--)() |
| java.util.ArrayList<java.lang.String> | [**getProductCTNs**](../../../../../../com/philips/cdp/di/iap/integration/IAPFlowInput.html#getProductCTNs--)() |

* [**IAPInterface**](IAPInterface.html)

### Constructor Summary

|  |
| --- |
| **Constructors** |
| **Constructor and Description** |
| [**IAPInterface**](../../../../../../com/philips/cdp/di/iap/integration/IAPInterface.html#IAPInterface--)() |

### Method Summary

|  |  |
| --- | --- |
| **All Methods** | |
| **Modifier and Type** | **Method and Description** |
| void | [**getCompleteProductList**](../../../../../../com/philips/cdp/di/iap/integration/IAPInterface.html#getCompleteProductList-com.philips.cdp.di.iap.session.IAPListener-)([**IAPListener**](../../../../../../com/philips/cdp/di/iap/session/IAPListener.html) iapListener) |
| void | [**getProductCartCount**](../../../../../../com/philips/cdp/di/iap/integration/IAPInterface.html#getProductCartCount-com.philips.cdp.di.iap.session.IAPListener-)([**IAPListener**](../../../../../../com/philips/cdp/di/iap/session/IAPListener.html) iapListener) |
| void | [**init**](../../../../../../com/philips/cdp/di/iap/integration/IAPInterface.html#init-com.philips.platform.uappframework.uappinput.UappDependencies-com.philips.platform.uappframework.uappinput.UappSettings-)(com.philips.platform.uappframework.uappinput.UappDependencies uappDependencies, com.philips.platform.uappframework.uappinput.UappSettings uappSettings) |
| void | [**launch**](../../../../../../com/philips/cdp/di/iap/integration/IAPInterface.html#launch-com.philips.platform.uappframework.launcher.UiLauncher-com.philips.platform.uappframework.uappinput.UappLaunchInput-)(com.philips.platform.uappframework.launcher.UiLauncher uiLauncher, com.philips.platform.uappframework.uappinput.UappLaunchInput uappLaunchInput) |

* [**IAPLaunchInput**](IAPLaunchInput.html)

### Constructor Summary

|  |
| --- |
| **Constructors** |
| **Constructor and Description** |
| [**IAPLaunchInput**](../../../../../../com/philips/cdp/di/iap/integration/IAPLaunchInput.html#IAPLaunchInput--)() |

### Method Summary

|  |  |
| --- | --- |
| **All Methods** | |
| **Modifier and Type** | **Method and Description** |
| [**IAPListener**](../../../../../../com/philips/cdp/di/iap/session/IAPListener.html) | [**getIapListener**](../../../../../../com/philips/cdp/di/iap/integration/IAPLaunchInput.html#getIapListener--)() |
| void | [**setIAPFlow**](../../../../../../com/philips/cdp/di/iap/integration/IAPLaunchInput.html#setIAPFlow-int-com.philips.cdp.di.iap.integration.IAPFlowInput-)(int pLandingView, [**IAPFlowInput**](../../../../../../com/philips/cdp/di/iap/integration/IAPFlowInput.html) pIapFlowInput) |
| void | [**setIapListener**](../../../../../../com/philips/cdp/di/iap/integration/IAPLaunchInput.html#setIapListener-com.philips.cdp.di.iap.session.IAPListener-)([**IAPListener**](../../../../../../com/philips/cdp/di/iap/session/IAPListener.html) iapListener) |

* [**IAPSettings**](IAPSettings.html)

### Constructor Summary

|  |
| --- |
| **Constructors** |
| **Constructor and Description** |
| [**IAPSettings**](../../../../../../com/philips/cdp/di/iap/integration/IAPSettings.html#IAPSettings-android.content.Context-)(android.content.Context applicationContext) |

### Method Summary

|  |  |
| --- | --- |
| **All Methods** | |
| **Modifier and Type** | **Method and Description** |
| boolean | [**isUseLocalData**](../../../../../../com/philips/cdp/di/iap/integration/IAPSettings.html#isUseLocalData--)() |
| void | [**setUseLocalData**](../../../../../../com/philips/cdp/di/iap/integration/IAPSettings.html#setUseLocalData-boolean-)(boolean mUseLocalData) |

# InApp Purchase API Reference

These are the InApp Purchase APIs.

**Class Overview**

This class having the inApp purchase methods to access the cart.

**Summary**

Inherited Constants

|  |  |  |  |
| --- | --- | --- | --- |
| **Return type** | **Error Constants** | **Error Code** | **Error Descriptions** |
| int | IAPConstant.IAP\_ERROR\_NO\_CONNECTION | 2 | No Connection |
| int | IAPConstant.ERROR\_CONNECTION\_TIME\_OUT | 3 | Connection Timeout |
| int | IAPConstant.IAP.ERROR\_AUTHENTICSTION\_FAILURE | 4 | Authentication failure |
| int | IAPConstant.IAP\_ERROR\_INSUFFICIENT\_STOCK\_ERROR | 6 | Product out of stock |

Inherited Methods

|  |  |  |
| --- | --- | --- |
| void | onSuccess() | Success callback for doing after getting response |
|  | onUpdateCartCount() | In this callback, vertical can call product cart caunt |
|  | updateCartIconVisibility(**boolean** shouldShow) |  |
| void | onGetCompleteProductList(ArrayList<String> productList) | getCompleteProductList will give complete product list on onSuccess call |
|  | onGetCartCount(**int** count) |  |
| void | onFailure(int errorCode) | It will return int constants for error |

# InApp Cart Icon : To Add shopping cart icon for an vertical proposition,

<FrameLayout

        android:id="@+id/cart\_container"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_alignParentEnd="true"

        android:layout\_centerVertical="true"

        android:layout\_gravity="center\_vertical"

        android:paddingLeft="15dp"

        android:paddingRight="15dp"

        android:visibility="gone">

        <ImageView

            android:id="@+id/cart\_icon"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:layout\_gravity="center\_vertical"

            android:layout\_marginLeft="10dp"

            android:paddingRight="@dimen/network\_margin\_left\_right"

            android:visibility="gone" />

        <com.philips.cdp.uikit.customviews.BadgeView

            android:id="@+id/item\_count"

            style="@style/NotificationLabel.Small"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:layout\_gravity="top|left"

            android:layout\_marginBottom="15dp"

            android:visibility="gone" />

</FrameLayout>

mCartIcon = (ImageView) mMainLayout.findViewById(R.id.cart\_icon);

 mCartIconDrawable = VectorDrawable.create(context, **R.drawable.iap\_shopping\_cart**); //Vector Drawable

mCartIcon.setBackground(mCartIconDrawable);

# InApp Cart Vector Drawable Icon :

**Vector Drawable (R.drawable.iap\_shopping\_cart)**

    <vector

    xmlns:android="<http://schemas.android.com/apk/res/android>"

    xmlns:app="<http://schemas.android.com/apk/res-auto>"

    android:width="20dp"\_

    android:height="18dp"

    android:viewportHeight="370.7"

    android:viewportWidth="425.2"

    app:uikit\_vc\_viewportHeight="370.7"

    app:uikit\_vc\_viewportWidth="425.2">

    <path

        android:fillColor="#fff"

        android:pathData="M267.4,308.8c-19.6,-1.9 -36,14.4 -34,34c1.4,14.5 13.2,26.3 27.7,27.7c19.6,1.9 36,-14.4 34,-34C293.7,322 281.9,310.2 267.4,308.8z"

        app:uikit\_vc\_fillColor="#fff"

        app:uikit\_vc\_pathData="M267.4,308.8c-19.6,-1.9 -36,14.4 -34,34c1.4,14.5 13.2,26.3 27.7,27.7c19.6,1.9 36,-14.4 34,-34C293.7,322 281.9,310.2 267.4,308.8z"/>

    <path

        android:fillColor="#fff"

        android:pathData="M115.6,308.7c-19.6,-1.9 -36,14.4 -34,34c1.4,14.5 13.2,26.3 27.7,27.7c19.6,1.9 36,-14.4 34,-34C141.9,321.9 130.1,310.2 115.6,308.7z"

        app:uikit\_vc\_fillColor="#fff"

        app:uikit\_vc\_pathData="M115.6,308.7c-19.6,-1.9 -36,14.4 -34,34c1.4,14.5 13.2,26.3 27.7,27.7c19.6,1.9 36,-14.4 34,-34C141.9,321.9 130.1,310.2 115.6,308.7z"/>

    <path

        android:fillColor="#fff"

        android:pathData="M351.5,0c-25.2,0 -41.7,10.3 -46.6,37.2l-1.9,12l-289.3,0c-9.6,0 -16.2,9.6 -12.8,18.5l21.9,58c22.9,59.3 99.2,82.6 163.7,82.6H278c-4.1,25.7 -23.8,44.3 -46.9,44.3l-149.8,0l0,25.9c0,0 110.5,0 151.8,0c41.4,0 77.8,-32.3 84.7,-76.9l24.4,-155.4c1.6,-11.8 5.5,-14.8 16.5,-15.6l66.6,-4.9V0H351.5z"

        app:uikit\_vc\_fillColor="#fff"

        app:uikit\_vc\_pathData="M351.5,0c-25.2,0 -41.7,10.3 -46.6,37.2l-1.9,12l-289.3,0c-9.6,0 -16.2,9.6 -12.8,18.5l21.9,58c22.9,59.3 99.2,82.6 163.7,82.6H278c-4.1,25.7 -23.8,44.3 -46.9,44.3l-149.8,0l0,25.9c0,0 110.5,0 151.8,0c41.4,0 77.8,-32.3 84.7,-76.9l24.4,-155.4c1.6,-11.8 5.5,-14.8 16.5,-15.6l66.6,-4.9V0H351.5z"/>

    </vector>

# Reference APP link

# <https://atlas.natlab.research.philips.com/stash/scm/ip/in-app-purchase_android.git>

# Notes

1. Registration is developed as separate library project. App is expected to invoke registration library on click of registration button inside consumer care support page.
2. Library should be initialized as per document or sample app otherwise library would throw runtime exception.
3. Please refer sample application for more details
4. All dependencies can be referred as it is.
5. Configuration can be followed [all sample configurations are provided in sample]