



JavaScript/HTML5 API Developer Guide

This guide illustrates all the steps needed to add WAC's in-app payment functionality to your app.

Step 1: Run the Sample App

See how in-app payment would work in your app -- install the SDK and try out its sample application.

Step 2: Create Your WAC Account

If you do not already have a WAC account, start by creating one.

Step 3: Create Your API Keys

Define your application, planned operator markets, pricing. Then we can provide your API keys.

Step 4: Manage Your App

Customize in-app icons and localize purchase item names for different markets / countries.

Step 5: Update Your App

Add the WAC in-app payments functionality to your app.

Step 6: Test Your App

See if it works, test your in-app payments using WAC's test environment.

Step 7: Certify Your App

Tell WAC how to pay you, answer the compliance questions from your operators, and have WAC handle your publishing credentials.

Step 8: Set Your API Keys Live

Activate your API keys for the markets where you want your in-app purchases to be real monetary transactions.

Step 9: Push App to Markets

Make your app available to customers with WAC's in-app payments inside.

Step 1: Run the Sample App

WAC provides a sample app to let you see in-app payments in action and try it out for yourself. You can see this sample app running on WAC's server. For a more technical understanding of how it works, you can run the sample app on your own server.

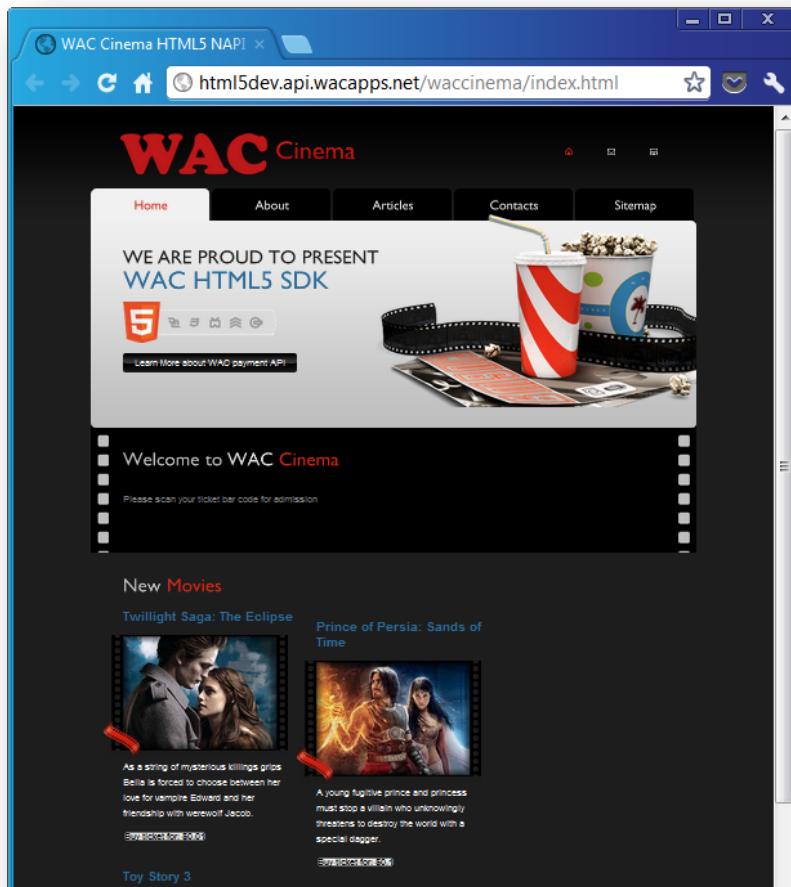
- A) Run the Sample App on WAC's Server**
- B) Run the Sample App on Your Own Server**

A) Run the Sample App on WAC's Server

- 1) Click to open the sample app: <http://html5dev.api.wacapps.net/waccinema/index.html>

Note: Because the sample app's purchase items and prices are defined for the United States market, you must run the sample app from a computer that initiates its API calls from a United States IP address. If your computer is operating from a non-U.S. IP address, spoof a U.S. address by adding **#spooifip=12.207.19.228** to the end of your URL (*be certain to use "spooif" as shown here, not "spoof"*).

Example: <http://html5dev.api.wacapps.net/waccinema/index.html#spooifip=12.207.19.228>



- 2) Note that WAC's payment APIs are implemented in this app with these key functions:

Function	Description
Purchases	App users can purchase items in the app and be billed for them by their mobile operator. Later, purchases are automatically reconciled, consolidated, and revenue deposited in your financial account.
Transaction History	Users can see all their past transactions with you, the app provider.
Transaction Validation	The SDK provides transaction validation. Developers can use the sample app to execute and test this functionality.

Try making a purchase, click the **buy** button for a movie.

New Movies

Prince of Persia: Sands of Time

A young fugitive prince and princess must stop a villain who unknowingly threatens to destroy the world with a special dagger.

Buy ticket for: \$0.1

Twilight Saga: The Eclipse

As a string of mysterious killings grips Bella is forced to choose between her love for vampire Edward and her friendship with werewolf Jacob.

Buy ticket for: \$0.01

Toy Story 3

- 3) Customers using Wi-Fi instead of a cell connection will be notified that they cannot be associated with their operator because their phone number cannot be detected:

We cannot detect your phone number

Please select the country that your mobile phone is registered in:

United States

Please enter your mobile phone number

+19724891737

This will not be passed on to any other companies.

By clicking on 'Submit', a text message with a PIN code will be sent to your mobile. Standard message and data rates may apply.

Submit **Cancel**

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For identification, these customers will be asked to provide their cell number and confirm receipt of a PIN sent to the number by SMS.

TEST MODE

WacCinema

You are about to buy a **Twillight Saga** from **WAC Ltd.**
\$0.01 plus applicable taxes will be charged to your Test Operator bill or deducted from your prepaid account.

A text message with a temporary pin has been sent to **+19724891737**. Please enter your PIN below.

Enter PIN:

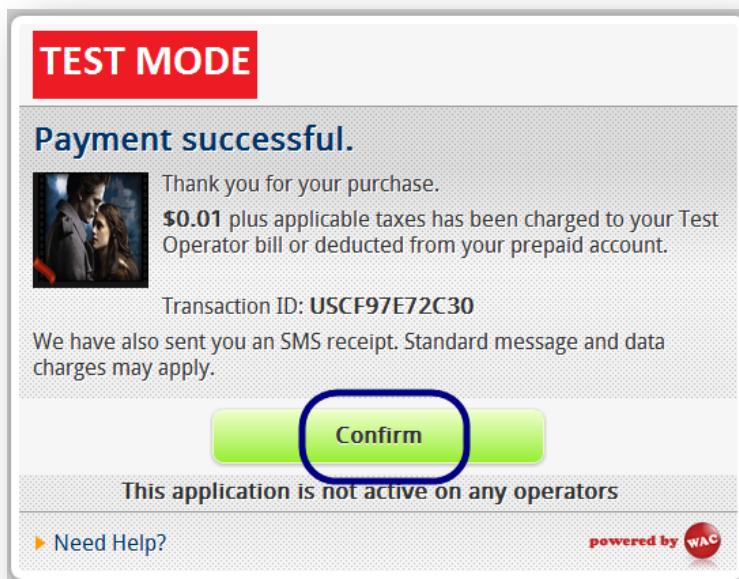
By clicking **Buy** you accept our [Terms & Conditions](#).

Buy **Cancel**

This application is not active on any operators

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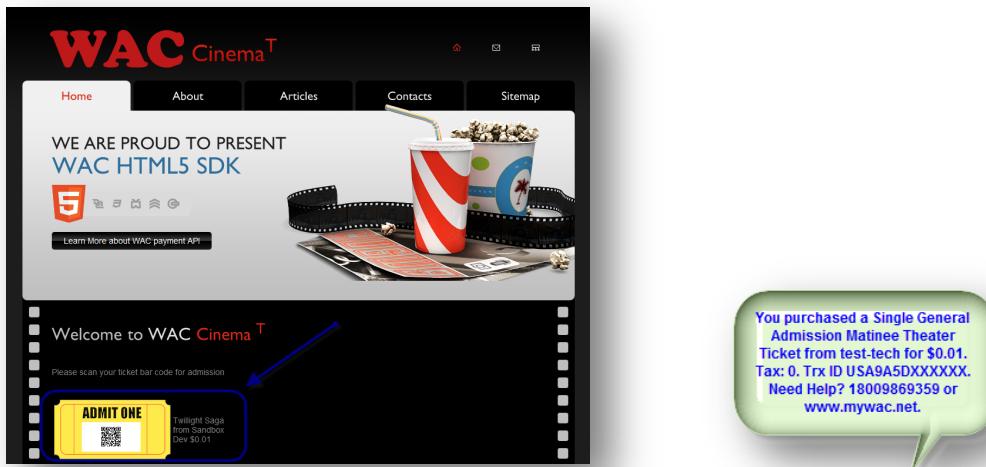
Then the customer can confirm the purchase and the charge is applied to the customer's mobile operator billing.



The sample app has been set up with WAC's sandbox test environment to let test each possible transaction. Do so by entering the following phone numbers and using PIN **4681**.

Scenario	What to Enter	Message
Successful payment	+19724891737	Payment successful.
Spend limit error	+19724891648	You have reached your operator spend limit. Please contact your operator for help.
Payment failed	+19724892325	Payment failed, please try again later. You will not be charged for this transaction.
Operator not supported	Any operator number not live on WAC	Operator not supported.

- 4) With a successful purchase, the customer will see the purchase item and receive an SMS confirmation:



B) Run the Sample App on Your Own Server

You can also run WAC's SDK sample app on your own server. Here's how.

- 1) Ensure your web server is configured to use port 8080.

Note: If you are using Apache Tomcat, this web server is already configured to port 8080. You can download it here: <http://tomcat.apache.org/download-70.cgi>.

- 2) Update your system's **hosts file** with the following: **127.0.0.1 html5dev.api.wacapps.net**.

Tip: OSX/Linux/UNIX users will find their host file at **/etc/**. Windows users will find their hosts file at **<Windows installation folder>/system32/drivers/etc/**. Also, to edit the Windows hosts file with Notepad you will need to run Notepad as an administrator (open Notepad by right-clicking it and choosing **Run as administrator**).

- 3) Download the JavaScript/HTML5 SDK here: <https://www.wacapps.net/sdk>.

Notes:

- This guide's instructions are for **version 1.1 of WAC's JavaScript/HTML5 SDK** – make certain that this is the correct guide version for your version of the SDK. The most current developer guide is always available at <https://www.wacapps.net/developer-guide>.
- Before running the sample app, ensure that your computer's clock is set to your correct local time – WAC's payment gateway will report the following error if it receives calls from a system whose time varies more than 3 minutes from the app's local time: "Signature validation failed and/or not authorized."

- 4) Copy the **waccinema** folder to **apache-tomcat-<your version>\webapps**.

Note: This location may be different if you are not using the Tomcat server suggested in these instructions.

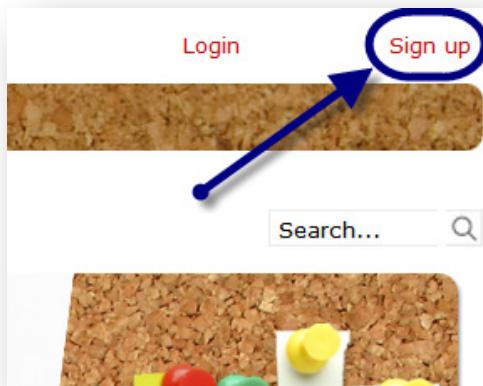
- 5) Restart your server.
- 6) Run the sample app: Go to <http://localhost:8080/waccinema>.

Note: Because the sample app's purchase items and prices are defined for the United States market, you must run the sample app from a computer that initiates its API calls from a United States IP address. If your computer is operating from a non-U.S. IP address, spoof a U.S. address by adding **#spooifip=12.207.19.228** to the end of your URL (*be certain to use "spooif" as shown here, not "spoof"*).

Step 2: Create Your WAC Account

If you do not already have a WAC account, create one now to tell WAC who you are and how to deposit the proceeds from your in-app sales.

- 1) Go to <http://www.wacapps.net/> and click **Sign up**.



- 2) Complete the Sign up screen and click **Sign me up**.

 A screenshot of the 'Sign up' form. The title 'Sign up' is at the top. A note says 'Please ensure all field's with an * are filled out.' The form fields include:

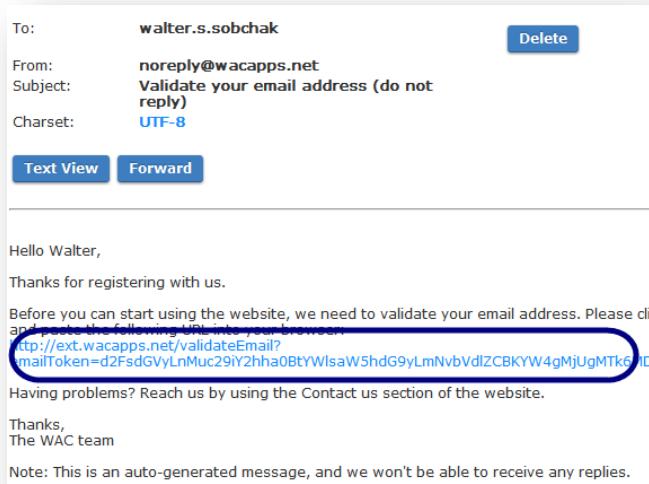
- *First Name: Walter
- *Last Name: Sobchak
- *Email Address: walter.s.sobchak@mailinator.com
- *Nickname: WalterS
- *Company Name: Sobchak Security
- *Password: (redacted)
- *Retype Password: (redacted)
- Security Image: E 2 6 T 6 4 K (with a 'Refresh image' button)
- *Image Text: E26T64K

 At the bottom, a note says 'By signing up you agree to be bound by the terms of this site. View [WAC Terms & Conditions](#)'. A large red 'Sign me up!' button is at the bottom right.

Field	Description
Email Address	We will use this email to send critical updates, be certain to use an account you check frequently.
Nickname	This will identify you when you post to forums and must be unique.
Company Name	Just enter your name if you do not represent a company.
Password	Must be composed of between 6 and 20 letters and numbers.

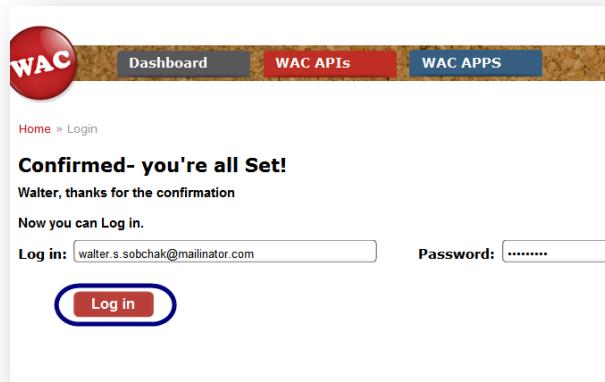
- 3) You should immediately receive an email asking you to validate your registration.

Click the validation link.

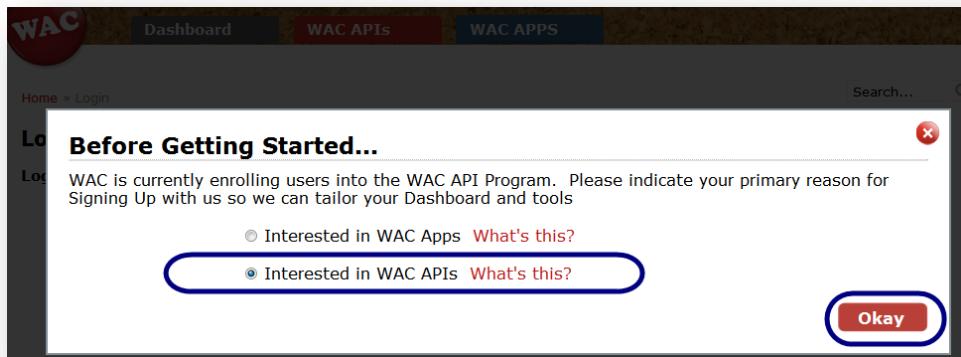


- 4) Your browser opens and you see your account creation is confirmed.

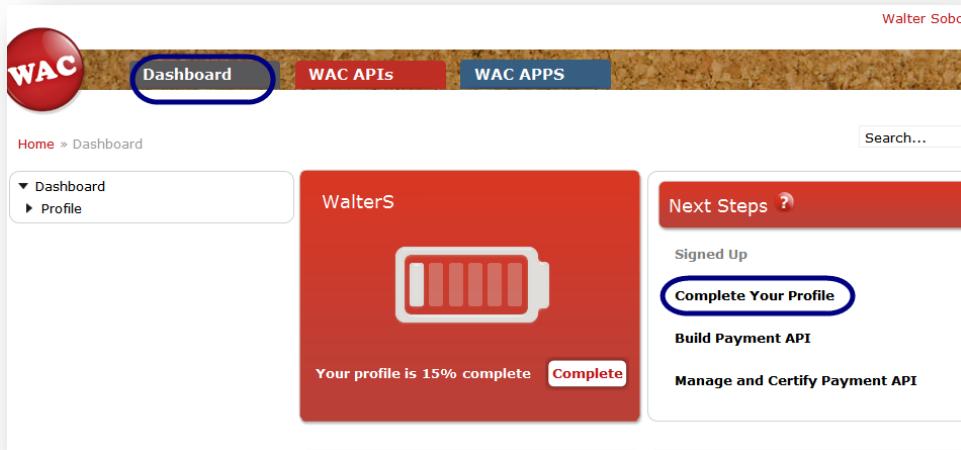
Log in with the credentials you just created.



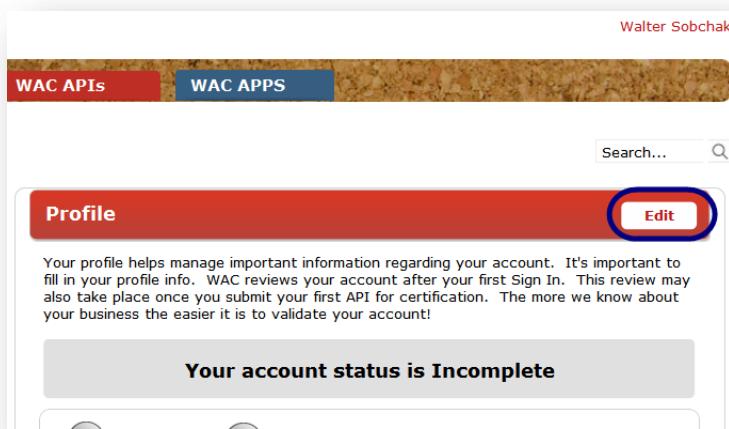
- 5) Choose the **WAC APIs** option and click **Okay**.



- 6) On the Dashboard screen, click **Complete Your Profile**.



- 7) On the Profile screen, click **Edit**.



- 8) Enter your information as shown and click **Save**.

Profile

Your profile helps manage important information regarding your account. It's important to fill in your profile info. WAC reviews your account after your first Sign In. This review may also take place once you submit your first API for certification. The more we know about your business the easier it is to validate your account!

Your account status is Incomplete

Basics

- Profile Status:** 15%
- First Name:** Walter
- Last Name:** Sobchak
- Nickname:** WalterSs
- Email:** walter.s.sobchaak@mailinator.com

Company Info

- Company Name:** Sobchak Security
- Company Address:** 2556 East 3rd Street
Long Beach, CA 90804
- Country:** USA

Support

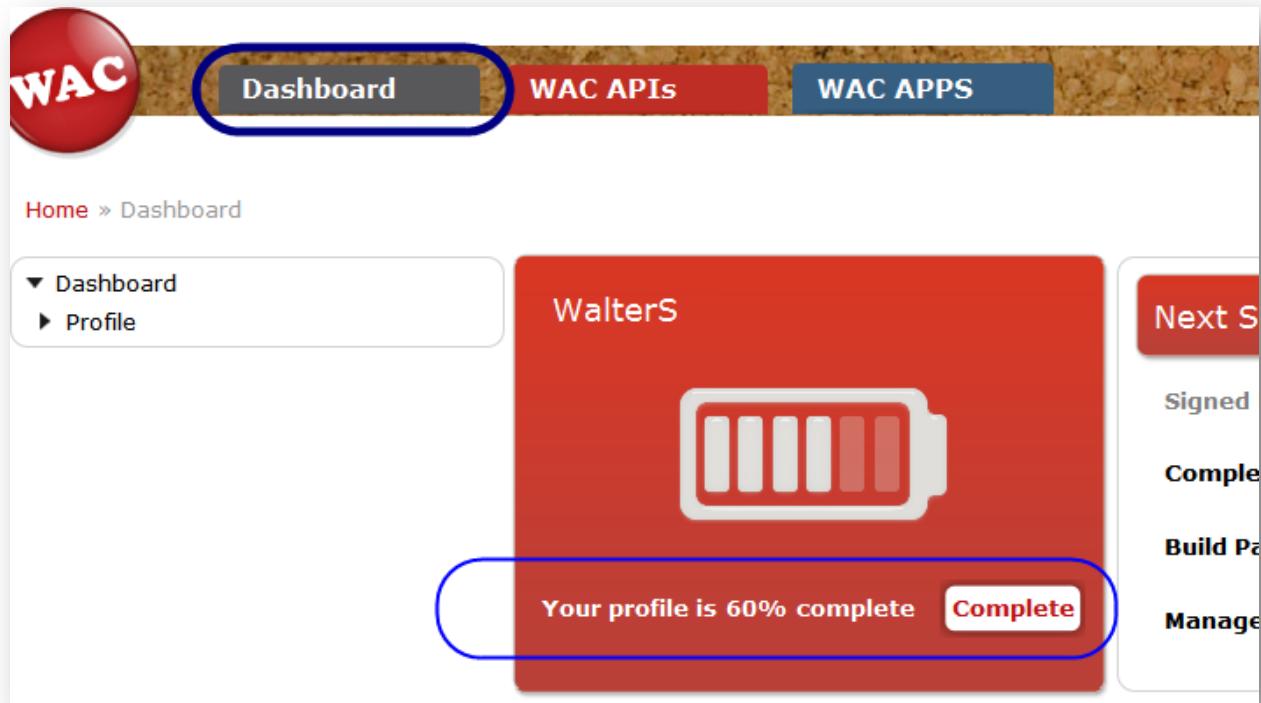
- Support Email:** walter.s.sobchaak@mailinator.com
- Support URL:** http://www.sobchaaksecurity.com
- Support Number:** +1 9252018501 Ext _____

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Number: +1 9252018501 Ext _____
- Technical Contact:** Walter Sobchak
Email: walter.s.sobchaak@mailinator.com
Number: +1 9252018501 Ext _____

9) Click **Dashboard**.

Your profile is not yet complete because your banking details that tell WAC how to pay you for your app sales are not yet entered. You do not need to do this yet, leave your profile now and move on to [Step 3: Create Your API Keys](#).

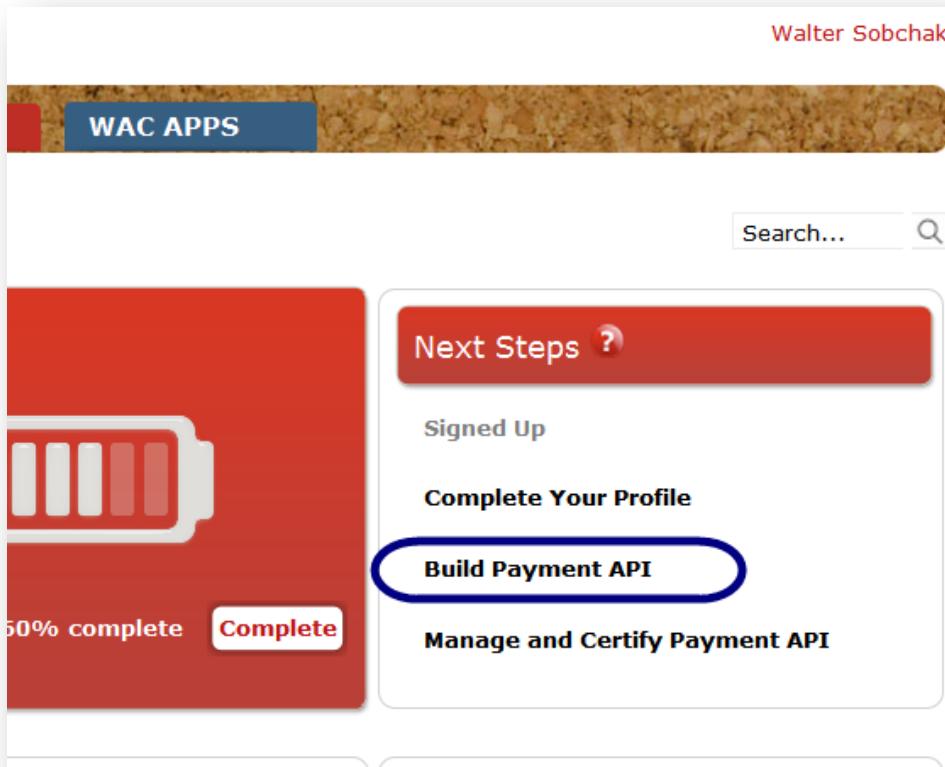


Step 3: Create Your API Keys

Now tell WAC what you will sell inside your app, the operator markets to target, and how much to charge in each market.

After you enter this information, WAC can provide you the API keys that your app can use to conduct in-app payments with WAC's servers.

- 1) Click **Build Payment API**.



- 2) Complete the **App Details** screen and click **Next**.

Tell us about the application in which you want to create a Payment API.

* Application Name WACTrek

* Version number 1.0

* Application platform Android 2.3

* Description Space shooter game.

Web Based App? Yes No

Cancel **Save & Exit** **Next**

Field	Description
Application Name	Enter the name customers will see when they view their purchase history.
Version Number	Enter no more than five digits (numbers or “.” only) to identify this payment API to you and to customers viewing their purchase history. Note: You can use the same version number and application name for multiple in-app payment APIs. However, choose a version number that makes it easy for you and for customers viewing their purchase history to tell which item was purchased.
Application Platform	Indicate which platform the app runs on.
Description	This description (1) helps the WAC Compliance Team understand your app’s functionality and (2) helps differentiate between apps with the same name.
Web Based App?	Choose YES.
Use default WAC Redirect URI?	This option appears when you indicated this is a Web-based app above. <ul style="list-style-type: none"> • Choose Yes to enter your own redirect URI. • Choose No to have WAC assign one to you at the end of this registration.
Enter your Redirect URI	If you elected to enter your own redirect URI, enter it here.

- 3) On the **Create Products screen**, you define each item customers can purchase in your app:

For each item customers can purchase in your app, enter a product item name (*25 characters max*) and click **Create**.

The screenshot shows the 'Create Products' step of a wizard. At the top, there are six steps: App Details, Create Products (highlighted in red), Select Markets, Price Products, Review, and Create Keys. Below the steps, a message says: 'Create names for each of the items you want to charge for in your application and we'll assign Product Codes which will need to be incorporated into your App'. A 'Product Item' input field contains 'WACTrek - Level 6', and a 'Create' button is highlighted with a red oval. Below this, a table lists two products:

Default I...	Product Item	Product Code	X
	WACTrek - Level 5	wac-c1bb555f-f4fa-4672-a3ed-0f2ebd...	X
	WACTrek - Level 4	wac-c6764a9b-60a9-482c-b9b6-9313...	X

At the bottom, there are navigation buttons: Back, Save & Exit (highlighted in red), and Next.

- 4) When finished, click **Next**. (You can always return to edit and add additional items.)

Default I...	Product Item	Product Code
	WACTrek - Level 6	wac-a254773b-5b5e-4b44-a6b6-5086...
	WACTrek - Level 5	wac-c1bb555f-f4fa-4672-a3ed-0f2ebd...
	WACTrek - Level 4	wac-c6764a9b-60a9-482c-b9b6-9313...

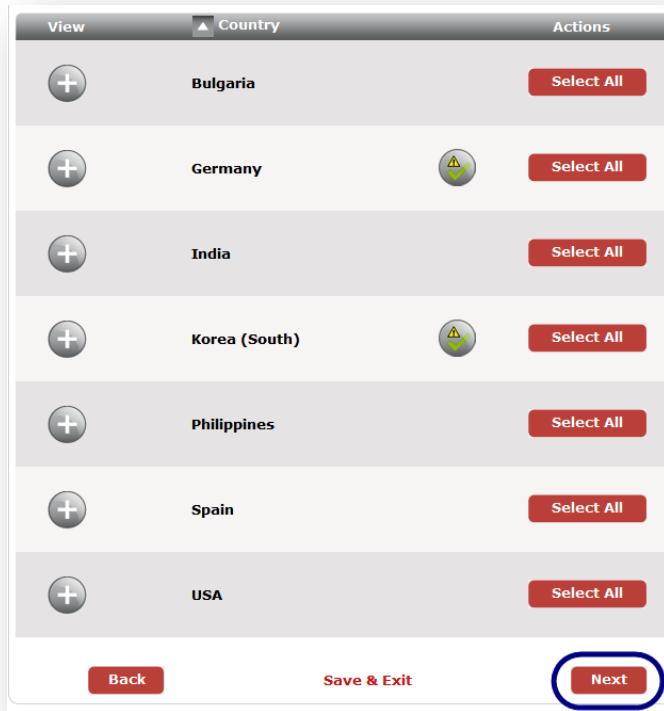
Page 1 of 1 Displaying 1 - 3 of 3

Back **Save & Exit** **Next**

- 5) On the **Select Market screen**, mark the operator checkbox for each operator in each country with whom you will market your app.

View	Country	Actions
	Bulgaria	
	Germany	
	O2 DE <input checked="" type="checkbox"/> Telekom DE	

- 6) Click **Next** when finished.



- 7) On the **Price Products** screen , you are ready to enter prices for each in-app sale item you defined.

Note: You can edit these prices later, including after the app is pushed live for market purchase.

Click the **Set prices** button for the first item.

Product Item	Product Code	Price Sta...	Actions
WACTrek - Level 6	wac-3104d272-c4b4-4bed-9b4b...	No	Set prices
WACTrek - Level 5	wac-8c4c246b-788a-43bf-973e...	No	Set prices
WACTrek - Level 4	wac-2aefc50b-57ef-4fda-b1e4...	No	Set prices

- 8) Enter the sales price of the in-app product.

Price Your Product Item

Create Your Product Item and set your price & we'll automatically suggest a price for the markets you are creating your Payment API for. If you want to customize click change. [How is this calculated?](#)

Product Item	WACTrek - Level 6	Your Currency	Your Price	2															
Product Code	wac-3104d272-c4b4-4bed-9b4b-91f4a201da1b	USD - United States Dc	.99	Suggest Price															
<table border="1"> <thead> <tr> <th>Country</th> <th>Operator</th> <th>Pricing Type ?</th> <th>Price</th> <th>Actions</th> </tr> </thead> <tbody> <tr> <td>Korea (South)</td> <td>Kt</td> <td>Fixed ?</td> <td>1100 KRW</td> <td>change</td> </tr> <tr> <td>Germany</td> <td>Telekom DE</td> <td>Fixed ?</td> <td>0.75 EUR</td> <td>change</td> </tr> </tbody> </table>					Country	Operator	Pricing Type ?	Price	Actions	Korea (South)	Kt	Fixed ?	1100 KRW	change	Germany	Telekom DE	Fixed ?	0.75 EUR	change
Country	Operator	Pricing Type ?	Price	Actions															
Korea (South)	Kt	Fixed ?	1100 KRW	change															
Germany	Telekom DE	Fixed ?	0.75 EUR	change															
3																			
<input type="button" value="Cancel"/> <input type="button" value="Save & Exit"/> <input type="button" value="Okay"/> 4																			

Step	Action
1	Enter your own currency and the item's desired price in this currency.
2	Click Suggest Price .
3	<p>WAC suggests the equivalent in the currency of each market you selected. WAC calculates this suggestion by (a) converting your base currency to the operator's currency using daily exchange rates and then (b) rounding it up to the nearest whole value.</p> <p>Note: If the Pricing Type field is Fixed, you can only select one of the available price points, which have been defined by the operator. If the Pricing Type field is Flexible, you may enter any price point up to the maximum transaction limit. All price points for all operators can be found in the Operator Pricing Guide at https://www.wacapps.net/pricing.</p> <p>To enter a price other than the suggested price, click the change link and you will see will see a drop down menu that shows all the available price points. Choose one of these price points.</p> 
	<p>Note: The mobile operator for each market determines whether these item prices include applicable value added or sales tax or other such taxes and how they are added to the customers total at checkout (see the WAC Operator Pricing Guide for all operator VAT/TAX models). In addition, local consumer laws may require disclosure of price variations. In the next step, this guide will provide an example of where and how to post this notice for customers.</p>
4	Click Okay .

9) You are returned to the **Price Products screen**.

Set the price for each remaining item and click **Next** when finished.

The screenshot shows the 'Price Products' step of the API setup wizard. The top navigation bar includes 'App Details', 'Create Products', 'Select Markets', 'Price Products' (which is red), 'Review', and 'Create Keys'. A message box states: 'Now that you've determined your Markets and Operators you can configure prices for each of your Product Items. Select the Set Prices button to use the pricing tool. You will have the chance to change these prices before you set your Payment API live'. Below is a table:

Product Item	Product Code	Price Sta...	Actions
WACTrek - Level 6	wac-3104d272-c4b4-4bed-9b4b...	Yes	Change prices X
WACTrek - Level 5	wac-8c4c246b-788a-43bf-973e...	No	Set prices X
WACTrek - Level 4	wac-2aefc50b-57ef-4fda-b1e4-...	No	Set prices X

At the bottom are 'Back', 'Exit', and 'Next' buttons. The 'Set prices' buttons for Level 5 and Level 4 are circled in blue.

10) When finished setting prices, click **Next**.

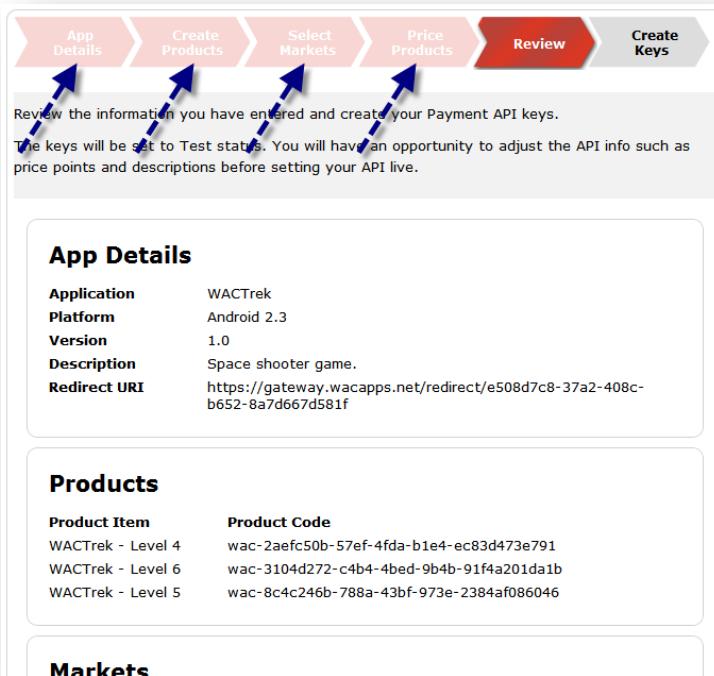
The screenshot shows the 'Price Products' step again. The top navigation bar is identical. A message box reiterates the purpose of the screen. Below is the same table as before:

Product Item	Product Code	Price Sta...	Actions
WACTrek - Level 4	wac-2aefc50b-57ef-4fda-b1e4-...	Yes	Change prices X
WACTrek - Level 6	wac-3104d272-c4b4-4bed-9b4b...	Yes	Change prices X
WACTrek - Level 5	wac-8c4c246b-788a-43bf-973e...	Yes	Change prices X

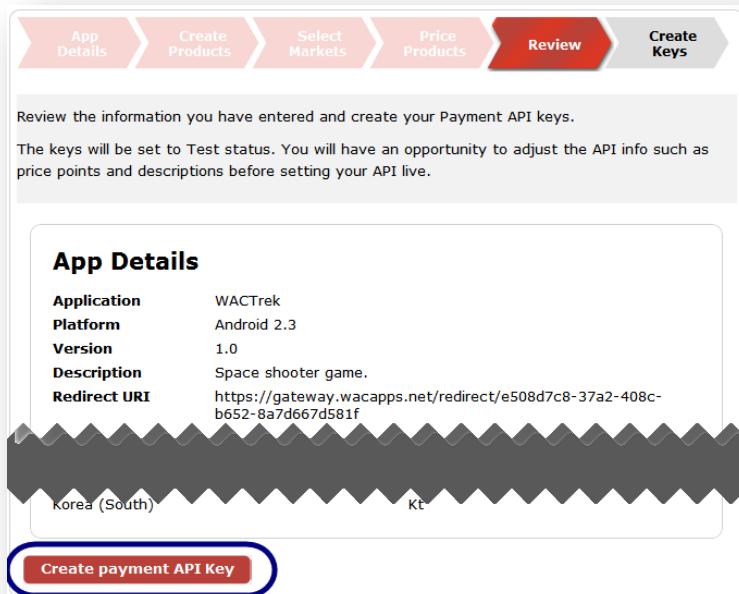
At the bottom are 'Back', 'Exit', and 'Next' buttons. The 'Next' button is circled in blue.

- 11) On the **Review screen**, verify (a) your app details are correct and (b) you have entered all products you currently know you want to sell in your app (you can return later to add more).

If you need to make edits, click to open and edit the relevant page.



- 12) When you are satisfied that your app details and the products in it are correct, click **Create Payment API Key**.



13) Your API keys are created and provided on the **Create Keys screen**.

The screenshot shows a step-by-step workflow for creating API keys. The steps are: App Details, Create Products, Select Markets, Price Products, Review, and Create Keys. The 'Create Keys' step is highlighted in red. Below the steps, a message congratulates the user on creating a Payment API key and provides instructions for integration. It also includes links to print and email the information. A note at the bottom states that the keys can only be used for the specific app and version, and suggests using the Manage Payment API tool for other apps. The final section displays the generated API keys: Application ID, Client ID, and Shared Secret Key.

Congratulations! You have created a Payment API. Your Payment API Key, Shared Secret Key and Application ID are needed for integration into your App. [Click here](#) for information or visit the [Tutorial](#)

[Print](#) [Email](#)

Please note, these keys can only be used for this Payment API and can't be used within multiple platforms and versions of the same App. If you want to sell the same Product items in other App's, you can use our clone function with the [Manage Payment API tool](#)

Application ID	wac-1b084ae1-63fb-45d7-937f-928b3cb53b2e
Client ID	wac-b7e3ce1bf0babae328705b158e9632ad5da23d87
Shared Secret Key	f99c8c290b880b1c4cbc96dedba61c9cdb750860

After your keys are created, you can see them any time on the **App Details** screen:

The screenshot shows the WAC APIs interface. At the top, there is a navigation bar with three tabs: 'Dashboard', 'WAC APIs' (which is highlighted with a blue oval), and 'WAC APPS'. Below the navigation bar, a breadcrumb trail reads: Home > WAC APIs > Payment API > Tools > Manage Payment APIs. A large red 'Tools' logo is prominently displayed. On the left, a sidebar menu for 'Payment API' is open, showing 'Getting Started', 'Documentation', 'Resources', 'Tools' (which is highlighted with a blue oval and has a yellow box labeled '2' over it), 'Create Payment API Key' (disabled), 'Manage Payment APIs' (highlighted with a blue oval and circled with a blue line, has a yellow box labeled '3' over it), and 'Customer Management'. The main content area shows a table with one row. The table has columns for 'Application' and 'Platform'. The application name is 'WACTrek' (highlighted with a blue oval and circled with a blue line, has a yellow box labeled '1' over it) and the platform is 'Android 2.'. There is also a 'View' dropdown set to 'All'.

The screenshot shows the 'App Details' screen. On the left, a sidebar menu lists 'AC APIs', 'Payment API' (highlighted with a blue oval and has a yellow box labeled '4' over it), 'Getting Started', 'Documentation', 'Resources', 'Tools', 'Create Payment API Key', 'Manage Payment APIs' (highlighted with a blue oval), and 'Customer Management'. The main content area has a 'Back' button and a title 'App Details'. It displays two pieces of information: 'Application Name' (WACTrek) and 'Platform' (Android 2.3).

Step 4: Manage Your App

You are ready to add the product icons and descriptions your customers will select to purchase your app's products.

A) Add Icons & Descriptions

B) Localize Product Names for Each Market

A) Add Icons & Descriptions

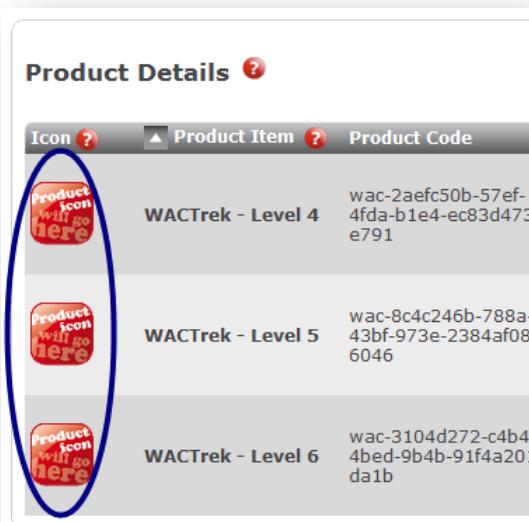
- 1) Click **Dashboard** and then **Manage and Certify Payment API**.

The screenshot shows the WAC (Wholesale Applications Community) dashboard. At the top, there is a navigation bar with tabs: 'WAC' (highlighted with a red circle), 'Dashboard' (highlighted with a blue oval), 'WAC APIs', and 'WAC APPS'. Below the navigation bar, the user's name 'Walter Sobcha' is displayed. The main content area has a sidebar on the left with links like 'Home', 'Dashboard', and 'Profile'. The central area features a large red box with a battery icon and the text 'Your profile is 60% complete' with a 'Complete' button. To the right, there is a 'Next Steps' section with a red button labeled 'Manage and Certify Payment API' (highlighted with a blue oval). A search bar is located at the top right of the main content area.

- 2) Open the app you just registered.

The screenshot shows the 'WAC APIs' section of the WAC interface. The navigation path is 'Home > WAC APIs > Payment API > Tools > Manage Payment APIs'. The main content area has a large red 'Tools' heading. On the left, there is a sidebar with a tree view of 'WAC APIs' sections, including 'Payment API' (which is expanded) and 'Tools' (which is also expanded). The 'Tools' section contains links like 'Create Payment API Key', 'Manage Payment APIs', and 'Customer Management'. In the center, there is a table with columns 'Application', 'Platform', and 'Status'. One row in the table is highlighted with a blue oval, showing the application name 'WACTrek'. At the bottom of the table, there is a page navigation bar.

- 3) WAC provided default icons while you were defining your app's product items. However, you must replace these with your own icons before your app can be accepted for market.



* The following are requirements and guidelines for the icons you upload to your in-app purchase items.

WAC Icon Guidelines

Requirements

- Size:** 200 x 200 pixels
- Format:** PNG

An Easy-to-Manage Name

Make it easy to keep track if you're publishing to multiple markets.

<app name>_<item name>_<market>.PNG

An Effective Design

Icons are small, so make them easy to understand -- simple and distinct gets noticed.

Effective Icons	Ineffective Icons
<ul style="list-style-type: none"> Distinct centered image(s) Distinct text (if any) Distinct colors 	<ul style="list-style-type: none"> Cluttered images Small or competing text Colors that blend together 

- 4) When you are ready to update your product icons, start by clicking edit for the first one.

Product Details					Add Product Item
Icon ?	▲ Product Item ?	Product Code	Price Status	Actions	
	WACTrek - Level 4	wac-2aefc50b-57ef-4fda-b1e4-ec83d473e791	Yes	Edit Localize Delete	
	WACTrek - Level 5	wac-8c4c246b-788a-43bf-973e-2384af086046	Yes	Edit Localize Delete	
	WACTrek - Level 6	wac-3104d272-c4b4-4bed-9b4b-91f4a201da1b	Yes	Edit Localize Delete	

- 5) Use the **change** links to update this app product's description and icon.

Note: The icon must be 200 x 200 pixels and in PNG format.

Edit Product Item

You can edit the name of your product item, upload an icon, and change the price. You can also localize product name on a per operator basis

Product Name	WACTrek - Level 4	Change
Product Description	No description added	Change
Product Code	wac-2aefc50b-57ef-4fda-b1e4-ec83d473e791	
Product Icon Change		

- 6) When ready, click **Okay**.

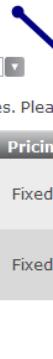
Edit Product Item

You can edit the name of your product item, upload an icon, and change the price. You can also localize the icon and product name on a per operator basis

Product Name	WACTrek - Level 4	Change
Product Description	With level 4 your ship gets Neutron Torpedoes -- enemies beware!	Save
Product Code	wac-2aefc50b-57ef-4fda-b1e4-ec83d473e791	
Product Icon Change		
Your Currency <input type="text"/> Your Price <input type="text"/> Suggest Price		
<small>* Prices may be exclusive or inclusive of sales and/or other taxes. Please refer to the pricing guide for more details.</small>		

Country	Operator	Localized Name	Pricing Type	Price	Actions
Korea (South)	Kt	WACTrek - Level 4	Fixed	1100 KRW	change
Germany	Telekom DE	WACTrek - Level 4	Fixed	0.75 EGP	change

Cancel **Okay**



- 7) You see that the icon is updated. Update the rest of your product icons and descriptions.

Product Details

Add Product Item

Icon	Product Item	Product Code	Price Status	Actions
	WACTrek - Level 4	wac-2aefc50b-57ef-4fda-b1e4-ec83d473e791	Yes	Edit Localize Delete
	WACTrek - Level 5	wac-8c4c246b-788a-43bf-973e-2384af086046	Yes	Edit Localize Delete
	WACTrek - Level 6	wac-3104d272-c4b4-4bed-9b4b-91f4a201da1b	Yes	Edit Localize Delete

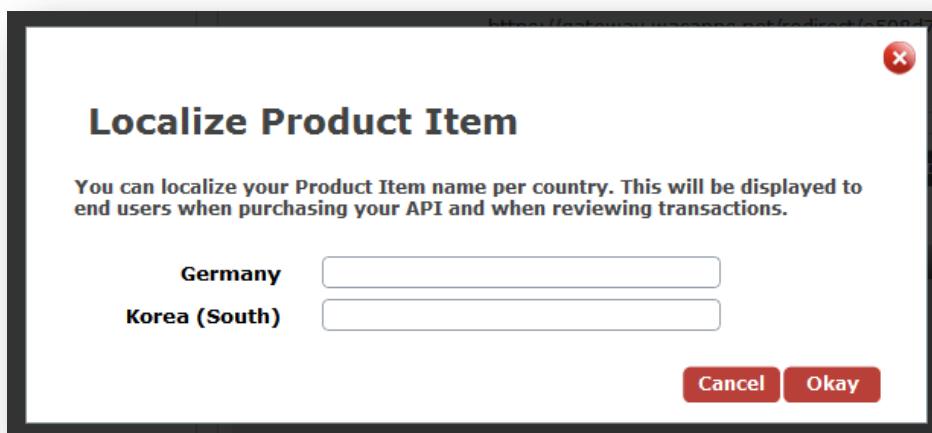
B) Localize Product Names for Each Market

You can elect to have each product's name appear in the language of the purchaser's market. This section shows how.

- 1) Click **Localize**.

Icon ?	Product Item ?	Product Code	Price Status	Actions
	WACTrek - Level 4	wac-2aefc50b-57ef-4fda-b1e4-ec83d473e791	Yes	Edit Localize (circled) Delete
	WACTrek - Level 5	wac-8c4c246b-788a-43bf-973e-2384af086046	Yes	Edit Localize Delete
	WACTrek - Level 6	wac-3104d272-c4b4-4bed-9b4b-91f4a201da1b	Yes	Edit Localize Delete

- 2) Each market you chose previously appears on the screen. Enter the product name customers in those markets will see and click **Okay**. Then repeat for your other app products.



Step 5: Update Your App

Now that you have told WAC's payment gateway what to do when customers make purchases inside your app, it's time to add the actual WAC in-app payment functionality to your own app.

This section outlines how to update your app using the code of the SDK sample application as a guide. (*Reminder: You installed and ran WAC's sample app in [Step 1: Run the Sample App](#) – if you skipped that step, go complete it now before continuing.*)

A) Enable In-App Payments in Your Code

B) Add Your “Pay By” Icons

C) Add a Tax Notice for Your Customers

A) Enable In-App Payments in Your Code

- 1) Make certain that you have already completed [Step 1: Try the Sample App](#).
- 2) Update your application code with the API keys you created in [Step 3: Create Your API Keys](#).
Reminder: You can always find your WAC API keys on the [wacapps.net App Details screen](#).
- 3) These are the steps to implementing WAC's APIs with your app. You can see this executed in WAC's WAC's SDK sample app at `unified-js-1.0.0-beta\war\index-js.html`:

Important: Remember that the WAC sample app is public code – exactly duplicating any part of its code in your app could create a security risk.

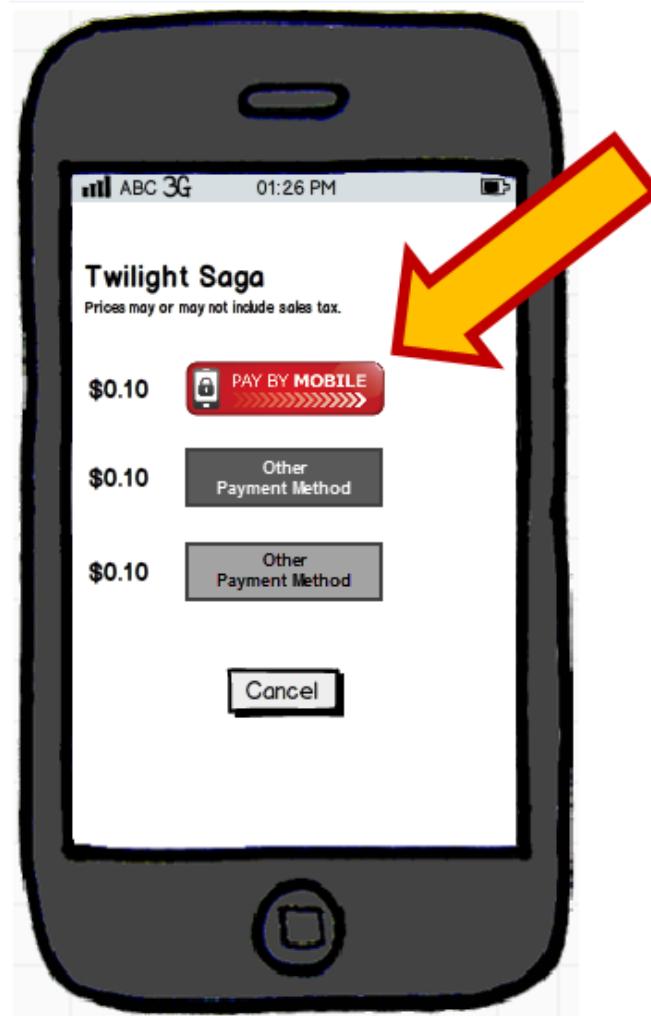
Step	Description
1	Import the WAC NAPI bootstrap, which will load the JS library appropriate for your browser and callback jscOnLoad. <pre><script> src="net.wacapps.napi.JSNAPILibrary/net.wacapps.napi.JS NAPILibrary.nocache.js"></script></pre>
2	Create a callback for library initialization. <pre><script> function jscOnLoad() {</pre>

Step	Description
3	<p>Get an instance of NAPIJSProxy.</p> <pre>// Get an instance of NAPIJSProxy napi= new net.wacapps.napi.util.NAPIJSProxy();</pre>
4	<p>Put an ABSOLUTE location of oauthWindow.html on your server.</p> <pre>// Put here an ABSOLUTE location of // oauthWindow.html on your server! oauthURL="http://html5dev.api.wacapps.net/waccinem a/oauthWindow.html";</pre>
5	<p>Initialize WAC's NAPI using the WAC API keys you created on WACapps.net:</p> <pre>// Initialize NAPI // Here is how the next section looks with the // API keys in the WAC SDK's sample app: // // napi.initialize("wac-d4bdd95d-4a8d-4cd4-95f9- // e952bf439a84", "wac- // f9edacb9406b4f2eced696eb9f8348262d77b89d", // "<your // own WAC developer ID here>", // "<put your WAC client ID here>", // "f822db1dca4064a94faaa0e5f2ae267c2d6fc760", // oauthURL, // net.wacapps.napi.api.WacEndpoints.PRODUCTION,</pre> <pre>napi.initialize("<put your WAC application ID here>", "<put your WAC client ID here>", "<put your WAC developer ID here>", "<put your shared secret key here>", oauthURL, net.wacapps.napi.api.WacEndpoints.PRODUCTION,</pre> <pre>function(itemsArray) { items= itemsArray;</pre>
6	<p>Purchase the first product item.</p> <pre>// On success we purchase the first product // item. item=items[0];</pre>

Step	Description
7	<p>Reserve the customer payment amount.</p> <pre>// Do reserve call napi.doReservePayment(item.getItemId(), function(String token) {</pre>
8	<p>Capture payment for successfully delivered item.</p> <pre>// Do payment capture call paymentUri = net.wacapps.napi.getInstance().getEndPoints() .getChargePaymentPath(); napi.doCapturePayment(token, napi.getAuth().expiresIn(napi.getAuthRequest()), napi.getAuth().serverReferenceCode(napi.getAuthRequest()), item, paymentUri, function(AmountTransaction amountTransaction) { //Success... }); }); });</pre>

B) Add Your “Pay By” Icons

For the screen in your app where your customers choose how they want to pay, WAC provides a variety of icons you can use for the WAC payment option.



Note: The WAC billing option button is only needed if there are multiple billing choices available to the customer. When WAC billing is the only option, your app can simply take the customer directly to the purchase confirmation screen.

There are two ways to use WAC's payment buttons in your app:

- **Embed a link to the graphic in your app:** If you embed a link to the button graphic (links provided in the table below) and WAC's server has a button available in the IP address' local language, then this button will automatically appear localized to the purchaser. WAC recommends this method because a localized payment button helps inspire trust for customers in non-English speaking countries.
- **Embed the graphic directly in your app:** If you embed WAC's payment button directly in your app it will *not* automatically match to the customer's local market. You can download graphics from the links in the table below. You can also download buttons all languages available at <https://www.wacapps.net/pay-by-mobile-icon>.

Image	URL
	http://icon.wacapps.net/icon/37w-x-23h-px.png
	http://icon.wacapps.net/icon/50w-x-34h-px.png
	http://icon.wacapps.net/icon/60w-x-38h-px.png
	http://icon.wacapps.net/icon/120w-x-30h-px.png
	http://icon.wacapps.net/icon/150w-x-40h-px.png
	http://icon.wacapps.net/icon/150w-x-60h-px.png
	http://icon.wacapps.net/icon/180w-x-113h-px.png
	http://icon.wacapps.net/icon/reversed-37w-x-23h-px.png
	http://icon.wacapps.net/icon/reversed-50w-x-34h-px.png
	http://icon.wacapps.net/icon/reversed-60w-x-38h-px.png
	http://icon.wacapps.net/icon/reversed-120w-x-30h-px.png
	http://icon.wacapps.net/icon/reversed-150w-x-40h-px.png
	http://icon.wacapps.net/icon/reversed-150w-x-60h-px.png
	http://icon.wacapps.net/icon/reversed-180w-x-113h-px.png

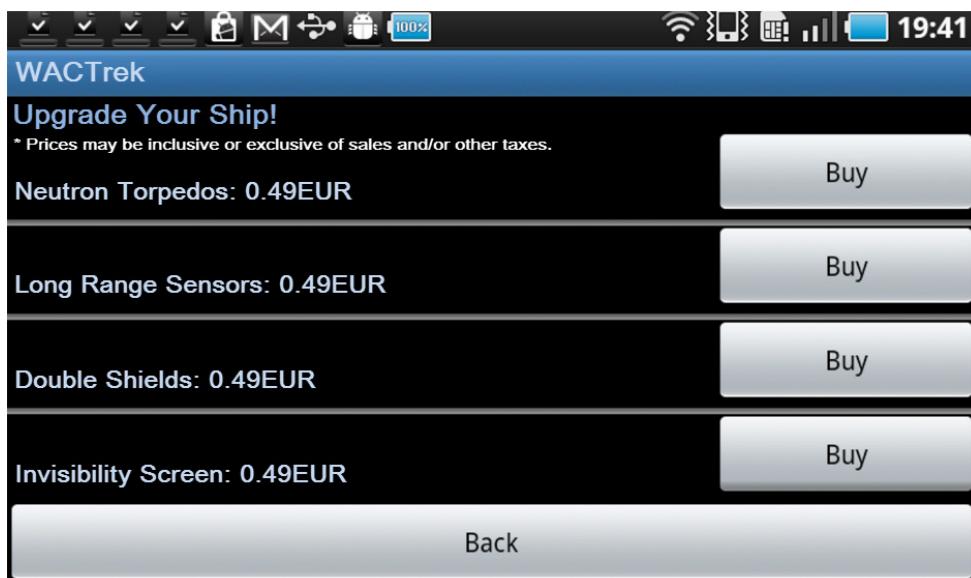
C) Add a Tax Notice for Your Customers

The mobile operator for each market determines whether item prices include applicable value added or sales tax or other such taxes and how they are added to the customers total at checkout. In addition, local consumer laws may require disclosure of price variations.

You are responsible for the wording and making sure that it is clear to consumers whether there is a price change and how taxes are added. Any such wording should appear clearly and concisely on the purchase screen.

Example for Initial Purchase Screen

Please note that the price of item, and the applicable VAT or sales tax, may vary depending on your mobile operator and/or the country in which you made your purchase.



Step 6: Test Your App

Now comes the fun part – buy some of your app's products and make sure it all works.

A) Verify In-App Payments Are Working

B) Test Prices in Different Regions

A) Verify In-App Payments Are Working

After you create your API keys, our app status updates to **TEST**, indicating you are ready to practice some test purchases and see how they go. At this stage all purchases are only simulations, so test all you want and no money will be transacted.

The screenshot shows the WAC APIs Tools page. At the top, there are tabs for Dashboard, WAC APIs (which is highlighted with a red oval), and WAC APPS. Below the tabs, a breadcrumb navigation shows Home > WAC APIs > Payment API > Tools > Manage Payment APIs. The main area has a title 'Tools' with a background illustration of tools. On the left, a sidebar menu under 'WAC APIs / Payment API / Tools' includes 'Create Payment API Key' (circled in blue), 'Manage Payment APIs' (circled in blue), and 'Customer Management'. The main content area displays a table with columns: Application, Platform, Version, and Status. A row for 'WACTrek' is shown with 'Android 2.3' as the platform, '1.0' as the version, and 'TEST' as the status. The 'Status' column header is circled in blue. A large orange number '1' is placed above the breadcrumb, '2' is placed over the sidebar menu, and '3' is placed over the 'Status' column header.

Tip: App Status Definitions

Status	Description
TEST	You have created your WAC API keys (Step 3: Create Your API Keys). During TEST status, in-app purchases occur only in WAC's testing "sandbox" – no money is transacted.
PROCESSING	You have requested that WAC certify your app (Step 7: Certify Your App). While WAC processes your certification, no updates are permitted to your app or your WAC account.
ACCEPTED	WAC has concluded certification and accepted your app to continue on to publishing (Step 8: Set Your API Keys Live).
LIVE	You have set your app's API keys live in at least one market, after which all in-app purchases from your app's WAC API keys in the market will be <i>real</i> monetary transactions.

Important Notes

- You can test WAC billing in your app against any operator by using a mobile device connected by Wi-Fi or a web browser on PC. However, you can only test WAC billing on mobile devices connected by SIM if the operator is running on WAC's latest API build. For the most current list of these operators, see here: <http://www.wacapps.net/live-operators>.

To test your app with an operator-SIM-connected mobile device whose operator has not yet migrated to WAC's latest platform, WAC recommends that you (a) perform the tests in this section via Wi-Fi and/ or web browser on PC and then (b) test again with the mobile device SIM-connected to the operator after your status is LIVE (see [Step 9: Push App to Markets](#)). If you have any questions, please contact us at support@wacapps.net.

- While WAC Operations and Support works hard to keep the Developer Sandbox available 24 hours a day and 7 days a week, occasional system downtime may occur. To check the real-time status of the sandbox at any time, click [here](#).
- Before continuing, ensure that the device you run your app on – mobile phone or the computer you run the browser on – is set to your correct local time. WAC's payment gateway will have your app report a 'failed-signature validation' error if it receives calls from a system whose time varies more than 3 minutes from your local time.
- Transactions and their downloads must complete within 5 minutes or reserved customer funds will be released – test to be certain your app's transactions can complete and initiate the capture call before this time limit.

Platform	Connection Type	Description															
Phone	<ul style="list-style-type: none"> SIM from enabled operator, and Wi-Fi off 	<ol style="list-style-type: none"> Because the SIM connection identifies you as a customer of the operator, you can complete the transaction successfully. Purchases appear on screen under Items you own. (Note: This test is only available for operators updated to WAC's latest API build.) Customers using the live app will receive SMS confirmation of the purchase (however during testing SMS messages are not sent). 															
Phone	<ul style="list-style-type: none"> SIM from another operator, or No SIM, or Wi-Fi only 	<ol style="list-style-type: none"> App reports it cannot detect your phone number with the market operator. App prompts for your phone number. WAC's test environment lets you simulate different scenarios by entering these phone numbers: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Scenario</th> <th>What to Enter</th> <th>Message</th> </tr> </thead> <tbody> <tr> <td>Successful payment</td> <td>+19724891737</td> <td>Payment successful.</td> </tr> <tr> <td>Spend limit error</td> <td>+19724891648</td> <td>You have reached your operator spend limit. Please contact your operator for help.</td> </tr> <tr> <td>Payment failed</td> <td>+19724892325</td> <td>Payment failed, please try again later. You will not be charged for this transaction.</td> </tr> <tr> <td>Operator not supported</td> <td>Any operator number not live on WAC</td> <td>Operator not supported.</td> </tr> </tbody> </table> App prompts you for PIN you received by SMS, which customers will receive for live apps. In testing, no PIN is sent. Instead, enter PIN 4681. Results match scenario. Successful payments are followed by purchased items appearing on screen under Items you own. Customers using the live app will receive SMS confirmation of the purchase, however these are not sent during your testing. 	Scenario	What to Enter	Message	Successful payment	+19724891737	Payment successful.	Spend limit error	+19724891648	You have reached your operator spend limit. Please contact your operator for help.	Payment failed	+19724892325	Payment failed, please try again later. You will not be charged for this transaction.	Operator not supported	Any operator number not live on WAC	Operator not supported.
Scenario	What to Enter	Message															
Successful payment	+19724891737	Payment successful.															
Spend limit error	+19724891648	You have reached your operator spend limit. Please contact your operator for help.															
Payment failed	+19724892325	Payment failed, please try again later. You will not be charged for this transaction.															
Operator not supported	Any operator number not live on WAC	Operator not supported.															
Browser	PC connection	Same as above.															

B) Test Prices in Different Regions

You can view your in-app prices under different regional operators by “spoofing,” imitating different regional IPs:

Region	Operator(s)	IP
US	ATT	12.207.19.228
Germany	DT, Telefonica	80.187.110.132
Spain	Telefonica	79.146.82.130
Bulgaria	TAG	31.211.128.0
Korea	KT, SKT, LGU+	61.47.192.22
UK	Vodafone	192.165.213.18
Philippines	SMART	120.28.64.69

To spoof a regional IP, add **#spooifip=<IP you want to imitate>** to the end of your app's URL:

Example: <http://html5dev.api.wacapps.net/waccinema/index.html#spooifip=12.207.19.228>

Step 7: Certify Your App

When your in-app payments are working to your satisfaction, you are ready to have WAC certify your API keys so your app can initiate real purchases.

To do this, first complete your banking details so WAC knows how to pay you for your in-app sales. Then complete the compliance questionnaire for the operator markets you will sell your app in.

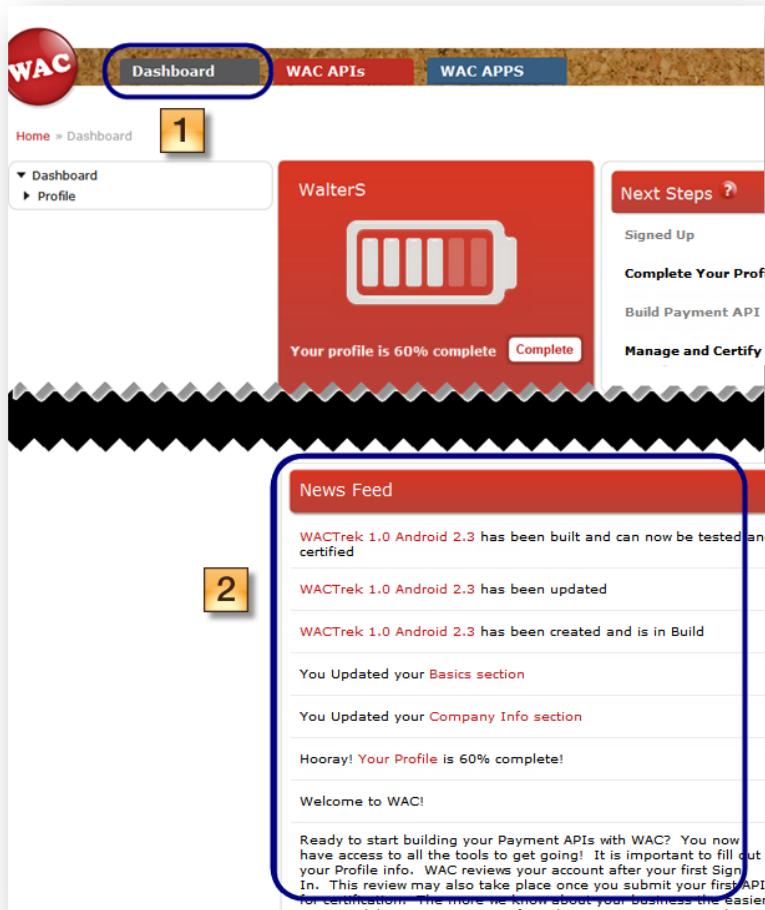
A) Tell WAC How to Pay You

B) Have WAC Certify Your App

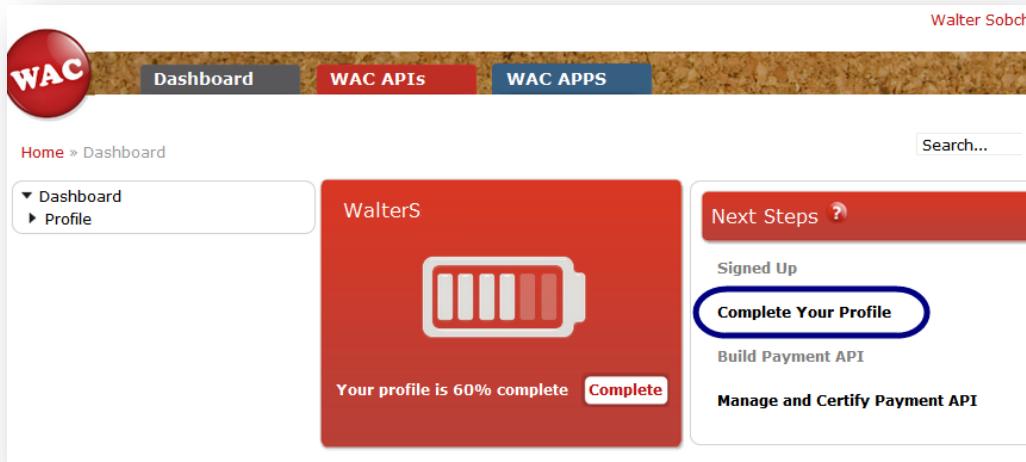
A) Tell WAC How to Pay You

- 1) Click **Dashboard**.

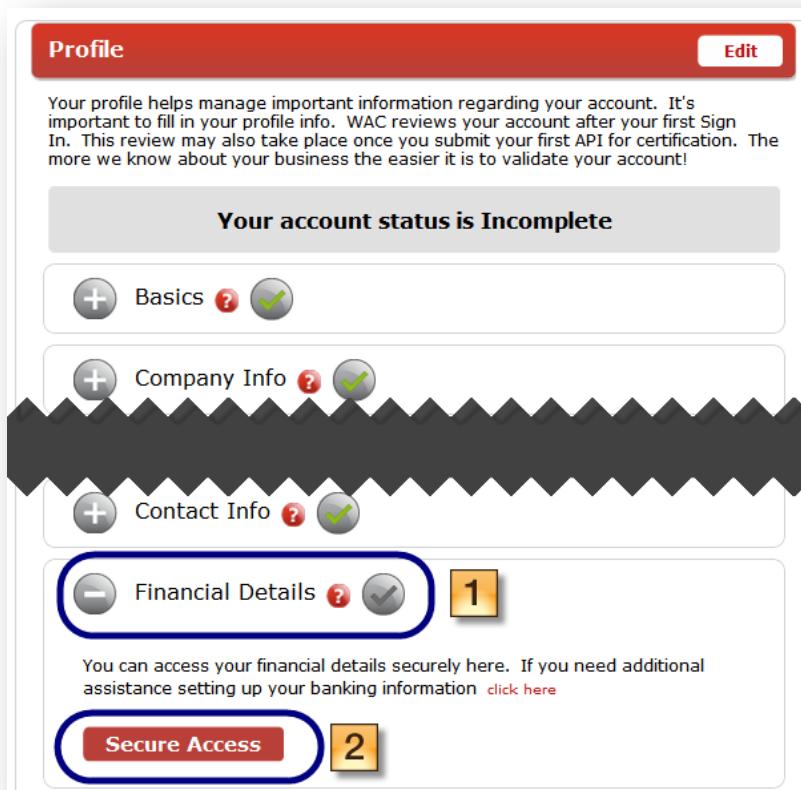
Tip: Notice that you can always see your current status and previous actions in the Newsfeed section of this screen.



- 2) Click **Complete Your Profile**.



- 3) In the Financial Details section, click **Secure Access**.



4) Complete the **Developer Information banking screen**.

Important Notes:

- Before you start entering your details, be certain you have a bank statement or your bank details handy.
- Ensure that your banking details are correct -- WAC cannot make payments to you unless your information is accurate.
- Bank details must be provided in English.
- After you have submitted your details you will receive confirmation that your account has been successfully set up. If there is a problem, you will be notified that your account has not been set up and why.
- Be certain to review [WAC's Settlement FAQ](#) for important details about getting credited for your app sales.
- If you have any questions about this form or your financial account with WAC, please contact settlement@wacapps.net.

Fields marked with a red asterisk (*) must be completed.

Developer Information

Header Information

Company: *	<input type="text" value="Sobchak Security,"/>	<input type="button" value="?"/>
------------	--	----------------------------------

Address Details

Room Number:	<input type="text"/>	<input type="button" value="?"/>
Floor:	<input type="text"/>	<input type="button" value="?"/>
Building Code:	<input type="text"/>	<input type="button" value="?"/>
House Number: *	<input type="text" value="2556"/>	<input type="button" value="?"/>
Street: *	<input type="text" value="Third Street"/>	<input type="button" value="?"/>
Street 2:	<input type="text"/>	<input type="button" value="?"/>
Street 3:	<input type="text"/>	<input type="button" value="?"/>
Street 4:	<input type="text"/>	<input type="button" value="?"/>
Street 5:	<input type="text"/>	<input type="button" value="?"/>
District:	<input type="text"/>	<input type="button" value="?"/>
City: *	<input type="text" value="Long Beach"/>	<input type="button" value="?"/>
Country: *	<input style="width: 100px;" type="text" value="USA"/>	<input type="button" value="?"/>
Postal Code/Zip Code: *	<input type="text" value="90804"/>	<input type="button" value="?"/>

PO Box:	<input type="text"/>	<input type="button" value="?"/>
PO Box Post Code:	<input type="text"/>	<input type="button" value="?"/>

Contact Details

Telephone:	<input type="text" value="925-201-8501"/>	<input type="button" value="?"/>
Mobile Phone:	<input type="text"/>	<input type="button" value="?"/>
E-Mail Address: *	<input type="text" value="walter.s.sobchak@mailinator.com"/>	<input type="button" value="?"/>

Tax Details

Tax Identification Number:	<input type="text" value="111-11-1111"/>	<input type="button" value="?"/>
Tax/VAT Country:	<input style="width: 100px;" type="text" value="USA"/>	<input type="button" value="?"/>
VAT Registration Number:	<input type="text"/>	<input type="button" value="?"/>

Bank Details

Bank Country: *	<input style="width: 100px;" type="text" value="USA"/>	<input type="button" value="?"/>	
Bank Key: *	<input style="width: 100px;" type="text" value="111000025"/>	<input type="button" value="Delete"/>	<input type="button" value="?"/>
Bank Name:	<input type="text" value="Bank of America"/>		
Bank Account: *	<input type="text" value="0142923887"/>	<input type="button" value="?"/>	
Account Holder: *	<input type="text" value="Walter S. Sobchak"/>		
Control Key:	<input type="text"/>	<input type="button" value="?"/>	
Reference:	<input type="text"/>	<input type="button" value="?"/>	
IBAN:	<input type="text"/>	<input type="button" value="?"/>	
Bank Account Currency: *	<input type="text" value="USD"/>	<input type="button" value="Delete"/>	<input type="button" value="?"/>

Payment Details

Payment Methods: *	<input type="text" value="US ACH (USD)"/>	<input type="button" value="?"/>
Payment Terms:	<input type="text" value="Z041"/>	<input type="button" value="?"/>

Field	Description
Name	This field is important for tax and legal purposes: If you are a registered company, enter your company legal name. Otherwise, enter your full name.
Address & Contact Details	If you are a company, enter the company information. Otherwise enter your personal information.
Tax Identification Number	For developers selling within the U.S., this is a nine-digit number obtained from the U.S. Social Security Administration (SSA) or the Internal Revenue Service (IRS). Leave this field blank if you do not have a Tax Identification Number.
TAX/VAT Country	If you are VAT/TAX registered in a country other than your country of residence and you wish to use this VAT/TAX registration for the sale of your app(s), enter that country's VAT/TAX registration. If you are not registered for VAT, enter your own country.
VAT Registration Number	Enter your VAT ID, i.e. VAT registration, number. This number identifies you to your tax authority for VAT purposes.
Bank Country	Enter the country of your bank

Field	Description																																													
Bank Key	Your bank key -- also known as your sort code or routing code in the US -- is the code that identifies your bank branch. You will find it on your bank statements and printed as the middle group of computer-type figures at the bottom of your checks. It can be up to 15 figures depending on country. US dollar payments to US bank accounts always require a valid bank key/sort code/routing code.																																													
	<table border="1"> <thead> <tr> <th>Country</th> <th>Sort Code</th> <th>Bank Account</th> <th>IBAN</th> <th>SWIFT</th> </tr> </thead> <tbody> <tr><td>Germany</td><td>29050101</td><td>12226411</td><td>DE75290501010012226411</td><td>SBREDE2XXX</td></tr> <tr><td>Spain</td><td>21000178</td><td>0200452310</td><td>ES5221000178750200452310</td><td>CAIXESBBXXX</td></tr> <tr><td>Great Britain</td><td>160079</td><td>10084423</td><td>GB59RBOS16007910084423</td><td>RBOSGB21021</td></tr> <tr><td>Ireland</td><td>900199</td><td>85856560</td><td>IE37BOFI90019985856560</td><td>BOFIIE2D</td></tr> <tr><td>Italy</td><td>0102501603</td><td>100000018690</td><td>IT53A0102501603100000018690</td><td>IBSPITTM</td></tr> <tr><td>Netherlands</td><td>S0GE</td><td>0270202641</td><td>NL89S0GE0270202641</td><td>S0GENL2A</td></tr> <tr><td>Portugal</td><td>00070038</td><td>00041560008</td><td>PT50000700380004156000831</td><td>BESCPTPL</td></tr> <tr><td>Greece</td><td>0710033</td><td>0000033031352140</td><td>GR830710033000033031352140</td><td>MIDLGRAA</td></tr> </tbody> </table>	Country	Sort Code	Bank Account	IBAN	SWIFT	Germany	29050101	12226411	DE75290501010012226411	SBREDE2XXX	Spain	21000178	0200452310	ES5221000178750200452310	CAIXESBBXXX	Great Britain	160079	10084423	GB59RBOS16007910084423	RBOSGB21021	Ireland	900199	85856560	IE37BOFI90019985856560	BOFIIE2D	Italy	0102501603	100000018690	IT53A0102501603100000018690	IBSPITTM	Netherlands	S0GE	0270202641	NL89S0GE0270202641	S0GENL2A	Portugal	00070038	00041560008	PT50000700380004156000831	BESCPTPL	Greece	0710033	0000033031352140	GR830710033000033031352140	MIDLGRAA
Country	Sort Code	Bank Account	IBAN	SWIFT																																										
Germany	29050101	12226411	DE75290501010012226411	SBREDE2XXX																																										
Spain	21000178	0200452310	ES5221000178750200452310	CAIXESBBXXX																																										
Great Britain	160079	10084423	GB59RBOS16007910084423	RBOSGB21021																																										
Ireland	900199	85856560	IE37BOFI90019985856560	BOFIIE2D																																										
Italy	0102501603	100000018690	IT53A0102501603100000018690	IBSPITTM																																										
Netherlands	S0GE	0270202641	NL89S0GE0270202641	S0GENL2A																																										
Portugal	00070038	00041560008	PT50000700380004156000831	BESCPTPL																																										
Greece	0710033	0000033031352140	GR830710033000033031352140	MIDLGRAA																																										
	<p>Find and add your bank key as follows:</p> <ol style="list-style-type: none"> 1) Click the finder icon.  <ol style="list-style-type: none"> 2) Search for your bank and click to add its bank key. 																																													
Bank Name	Be certain to enter the full bank name.																																													
Bank Branch	Enter the bank branch name or bank branch number for Japanese bank accounts. If none enter the bank city.																																													
Bank Street	Enter the number and street where your bank branch is located.																																													
Bank City	Enter the city where your bank branch is located.																																													
Bank Account	Enter your bank account number.																																													
Account Holder	Enter account holder name exactly as it appears on your statement.																																													

Field	Description
Control Key	The control key is also known as “account type” and indicates the type of account: checking or savings: <ul style="list-style-type: none"> • 01: Checking • 02: Savings <p>Important: This key is mandatory for all U.S. dollar payments and mandatory if your bank account is held in Spain.</p>
Reference	Enter the reference that you would like to appear on your bank statement. For example, ‘Network API Sales’
IBAN	Enter your International Bank Account Number if your bank account is held in the European Union. The IBAN consists of a two-letter country code, followed by two check digits and up to thirty alphanumeric characters known as the Basic Bank Account Number (BBAN). For example AD12 0001 2030 2003 5910 0100. To find out what your IBAN is, look on your paper statement - it is usually near your name and address along with the SWIFT code. Note: This field is mandatory in the European Union and optional everywhere else.
Bank Account Currency	Indicate your bank’s type of currency.
SWIFT Code	The unique identification code of a particular bank; this code is sometimes found on account statements. This bank identifier code is eight or 11 characters long and composed of the following: <ol style="list-style-type: none"> 1. Four characters - bank code (only letters) 2. Two characters -Country code (only letters) 3. Two characters - location code (letters and digits). 4. Three characters - branch code, optional. Letters and digits.
Payment Methods and Payment Terms	Indicate the currency and method of payment transfer you would like for your app sale proceeds.

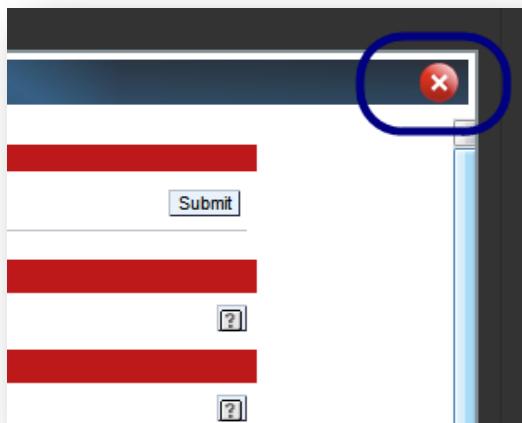
- 5) Click **Submit**.

The screenshot shows a 'Developer Information' form. At the top right is a 'Submit' button, which is circled in blue. Below it is a 'Header Information' section with a 'Company:' field containing 'Sobchak Security.' and a help icon. There is also a question mark icon.

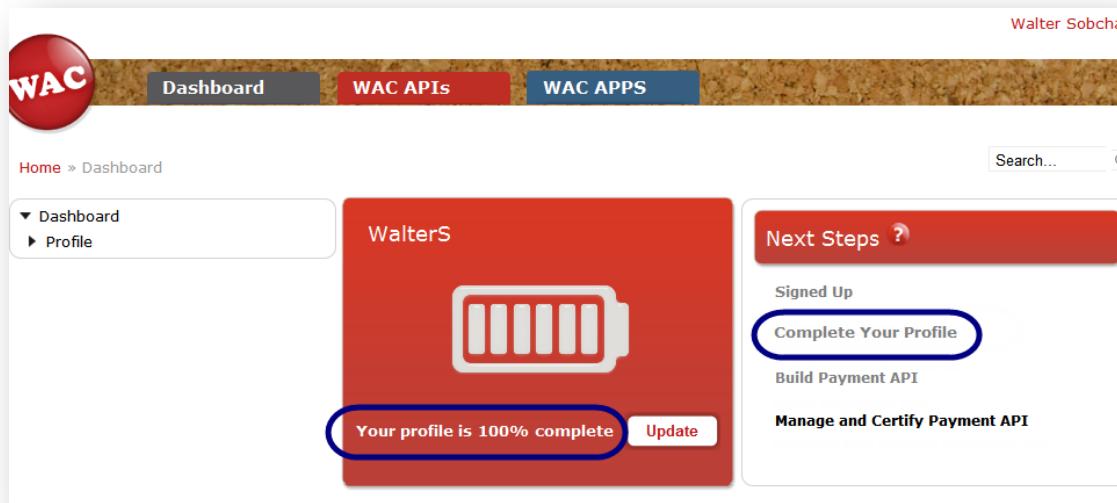
- 6) Be certain you see the submission is complete.
If there are errors, you will need to make corrections and resubmit or your changes will be lost.

The screenshot shows a 'Bank Details' popup. Inside, there are two messages: 'Processing Successful' and 'Changes have been made', both preceded by green info icons. Below the popup is a 'Developer Information' form with a 'Submit' button.

- 7) Close the Bank Details popup.



- 8) The **Complete Your Profile** link should no longer be active – adding your banking details completes your WAC profile.



Within 24 hours, WAC's compliance team will verify your banking information and emailed you with the results.

A screenshot of an email message. The recipient is 'walter.s.sobchak'. The subject line is 'WAC NOTIFICATION: Developer Account Status Update'. The message body starts with 'Dear Walter,' and continues: 'We are pleased to inform you that your application for a WAC Network API developer account has been approved. NEXT STEPS You can log into your WAC user account at any time at: www.wacapps.net SUPPORT Please direct any queries to: support@wacapps.net Or check out our developer forums at www.wacapps.net/forums Please add this email address to your contact list to avoid further communications being diverted to your JUNK folder. This email has been auto-generated à DO NOT REPLY DIRECTLY TO THIS EMAIL. Thank-you. WAC Support Team support@wacapps.net www.wacapps.net'.

B) Have WAC Certify Your App

You are ready to have WAC certify your app, after which your WAC APIs will be activated and your in-app purchases will be live transactions. When you submit your app for WAC certification, WAC verifies that:

- Your app is working correctly with your WAC API keys.
- Your app is set up correctly with the operator markets you selected.
- Your selected operator markets accept your app's content ratings.

Note: The time required for app certification is different for each operator. Please plan for the following certification times.

Operator	Country	Time to Certification
AT&T	United States	Within 48 hours
O2	Germany	Within 5 days
Telekom	Germany	Between 7 to 16 days
SMART	Philippines	Within 7 days
Mobitel	Bulgaria	Within 7 days
KT	Korea	Within 7 days
SKT	Korea	Within 7 days
LGU+	Korea	Within 7 days

Submit your app for WAC certification as follows:

- 1) Click **Manage and Certify Payment API**.

The screenshot shows the WAC Dashboard interface. At the top, there is a navigation bar with tabs: 'Dashboard' (selected), 'WAC APIs', and 'WAC APPS'. On the right side of the dashboard, there is a profile section for 'WalterS' which shows a battery icon and the message 'Your profile is 100% complete'. Below this, there is a 'Next Steps' section with several items: 'Signed Up', 'Complete Your Profile', 'Build Payment API', and a prominent blue button labeled 'Manage and Certify Payment API' which is circled in blue.

- 2) Click your app.

The screenshot shows the 'WAC APIs' page under the 'Payment API' section. The 'Tools' section is highlighted with a large red circle. Within this section, the 'Manage Payment APIs' link is also highlighted with a blue circle. The left sidebar contains a navigation tree for 'WAC APIs' and 'Payment API'.

- 3) Click **Get Certified**.

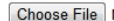
The screenshot shows a mobile application interface titled 'App Details'. At the top, there are buttons for 'Back', 'Get Certified' (which is circled in blue), 'Clone', and 'Delete'. Below this, there is a table with the following data:

Application Name	Platform	Version	Status
WACTrek	Android 2.3	1.0	TEST
Description	Space shooter game.		

- 4) Review and agree to the terms and conditions. (You will receive an email with confirmation of this agreement.)

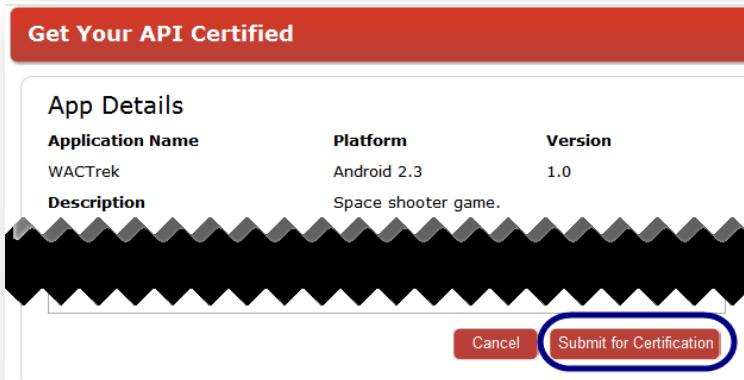
The screenshot shows a document titled 'WAC Payment APIs Terms & Conditions'. It features a section header 'Section 2' and a paragraph of text. A vertical dashed line on the left indicates scrollable content. Numbered callouts point to specific elements: '1' points to a '(scroll down)' button, '2' points to a checkbox, and '3' points to the 'Agree' button. At the bottom, there are links for 'Email me a copy' and 'Print'.

- 5) Complete the certification screen as indicated in the table.

Get Your API Certified									
App Details									
Application Name	Platform								
WACTrek	Android 2.3								
Description	Space shooter game.								
Content Rating 									
Please tell us about the content of your App and rate it by selecting from the drop downs below.									
* Political Commentary 	Please Select 								
* Reference to Religion 	Please Select 								
* Violence 	Please Select 								
* Offensive Language 	Please Select 								
* Gambling 	Please Select 								
* Sexual Content 	Please Select 								
* Alcohol, Tobacco or Drug 	Please Select 								
Category Info									
* Select a Category 	Please Select 								
* Is your App intended for child audience? 	Please Select 								
App File or URL's									
We need a copy of your App to allow us to Certify it, please either upload a copy of your Appfile or enter the web URL's for web-based application.									
Native App  Web based App 									
* Native App file:  Choose File No file chosen									
Recommended testing device: <input type="text"/>									
Product Item Descriptions									
To help our compliance team certify your payment API please provide a brief description of each Product Item within this App.									
<table border="1"> <thead> <tr> <th>Product Item</th> <th>Product Descriptions</th> </tr> </thead> <tbody> <tr> <td>* WACTrek - Level 4</td> <td>With level 4 your ship gets Neutron Torpedoes -- enemies beware!</td> </tr> <tr> <td>* WACTrek - Level 6</td> <td>Level 6 brings you Double Shields -- enemies beware!</td> </tr> <tr> <td>* WACTrek - Level 5</td> <td>Level 5 brings you Long Range Sensors -- enemies beware!</td> </tr> </tbody> </table>		Product Item	Product Descriptions	* WACTrek - Level 4	With level 4 your ship gets Neutron Torpedoes -- enemies beware!	* WACTrek - Level 6	Level 6 brings you Double Shields -- enemies beware!	* WACTrek - Level 5	Level 5 brings you Long Range Sensors -- enemies beware!
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* WACTrek - Level 6	Level 6 brings you Double Shields -- enemies beware!								
* WACTrek - Level 5	Level 5 brings you Long Range Sensors -- enemies beware!								
Notes									
If there are any notes or comments that will assist our Compliance team please enter them below. This will help speed up certification.									
Notes for our Compliance team <input type="text"/>									
<input type="button" value="Cancel"/> <input type="button" value="Submit for Certification"/>									

Section	Description
Content Rating	Operators require this information to ensure apps comply with their market's content guidelines, such as the assignment of age ratings to an app's content.
Category Info	Indicate your app's category (such as game, book, etc.) and whether it is intended primarily for children.
Add File or URL's	Use the Choose File button and upload your app. If there is a particular device this app should be tested on, enter this.
Product Item Descriptions	Verify your descriptions.
Notes	Enter any special considerations that will help WAC's compliance team assess your app.

- 6) Click **Submit for Certification**.



- 7) The certification process begins.

Hooray! Certifying...

Your app has now been submitted for certification. The certification process typically takes 48 hours. You will be notified by email and within your Dashboard News Feed once compliance has finished reviewing the information submitted.

Once your Payment API has been approved you can then Set Live and your Payment API Key will available in production

- 💡 While your Payment API is being certified its status will appear as "Processing". You cannot make any changes to the Payment API while it's being certified
- 💡 Your app will be certified on a per market basis. It is therefore possible that it is approved for some markets and rejected for others.

[Learn More about the WAC API Certification Process](#)

You will receive an email from WAC compliance (compliance@wacapps.net) when your app's certification begins.

Note: The time required for app certification is different for each operator, note the certification duration for the operator market(s) you selected:

Operator	Country	Time to Certification
AT&T	United States	Within 48 hours
O2	Germany	Within 5 days
Telekom	Germany	Between 7 to 16 days
SMART	Philippines	Within 7 days
Mobitel	Bulgaria	Within 7 days
KT	Korea	Within 7 days
SKT	Korea	Within 7 days
LGU+	Korea	Within 7 days

While certification is underway, your app's status will be **PROCESSING** and no WAC application or account updates will be permitted until certification is complete.

The screenshot shows the WAC API Tools interface. The top navigation bar includes 'Dashboard', 'WAC APIs' (which is active), and 'WAC APPS'. Below this, a breadcrumb trail shows 'Home > WAC APIs > Payment API > Tools > Manage Payment APIs'. The main area is titled 'Tools' and contains a table with columns: Application, Platform, Version, Status, and Last Update. One row in the table is circled in blue, showing 'WACTrek' as the application, 'Android 2.3' as the platform, '1.0' as the version, and 'PROCESSING' as the status. At the bottom of the table, there is a page number indicator 'Page 1 of 1'. On the left side, a sidebar menu under 'WAC APIs' has 'Payment API' expanded, showing 'Getting Started', 'Documentation', 'Resources', 'Tools' (which is also circled in blue), 'Create Payment API Key', 'Manage Payment APIs' (which is also circled in blue), 'Customer Management', and 'Reports'.

When your app is certified, this status will change to.

Application	Platform	Version	Status	Last Action
WACTrek	Android 2.3	1.0	ACCEPTED	26 Jan 2012

Tip: App Status Definitions

Status	Description
TEST	You have created your WAC API keys (Step 3: Create Your API Keys). During TEST status, in-app purchases occur only in WAC's testing "sandbox" – no money is transacted.
PROCESSING	You have requested that WAC certify your app (Step 7: Certify Your App). While WAC processes your certification, no updates are permitted to your app or your WAC account.
ACCEPTED	WAC has concluded certification and accepted your app to continue on to publishing (Step 8: Set Your API Keys Live).
LIVE	You have set your app's API keys live in at least one market, after which all in-app purchases from your app's WAC API keys in the market will be <i>real</i> monetary transactions.

WAC will email you the certification results.

The screenshot shows an email message with the following details:

To: walter.s.sobchak
From: noreply@wacapps.net
Subject: WAC NOTIFICATION: WACTrek - Android Status Update
Charset: UTF-8

Buttons: Delete, Text View, Forward, Experimental View, What's this?

Email Content:

Dear Walter,

We are pleased to inform you that the payment API for WACTrek - Android has been certified by WAC and is ready to be set live by you in the following WAC member operators/countries:

Telekom DE : ACCEPTED
AT&T : ACCEPTED

Next Steps:

Finally, when your app is certified / accepted, contact WAC at support@wacapps.net to do the following:

- Perform a formal run-through of your app.
- Have WAC help you set up your production credentials.
- Have WAC ensure your chosen operator markets have your production credentials.

Step 8: Set Your API Keys Live

You are ready to set your WAC API keys to status **LIVE**.

The screenshot shows the WAC API Management interface. The top navigation bar includes 'Dashboard', 'WAC APIs' (which is highlighted with a red oval), and 'WAC APPS'. Below the navigation is a breadcrumb trail: Home > WAC APIs > Payment API > Tools > Manage Payment APIs. The main content area has a 'Tools' title. On the left, a sidebar menu under 'WAC APIs' has 'Manage Payment APIs' circled in blue. The right side shows a table with columns: Application, Platform, Version, Status, and Last. One row in the table has 'WACTrek', 'Android 2.3', '1.0', and 'LIVE' circled in blue.

This means that all transactions made with your app against your WAC API keys will be real monetary transactions.

- 1) Return to your **App Details screen**.

The screenshot shows the WAC API Management interface. The top navigation bar includes 'Dashboard' (with a yellow box labeled '1'), 'WAC APIs', and 'WAC APPS'. Below the navigation is a breadcrumb trail: Home > WAC APIs > Payment API > Tools > Manage Payment APIs. The main content area has a 'Tools' title. On the left, a sidebar menu under 'WAC APIs' has 'Manage Payment APIs' circled in blue and labeled '2'. The right side shows a table with columns: Application, Platform, Version, Status, and Last. One row in the table has 'WACTrek' (labeled '3') circled in blue.

- 2) In the **Markets section**, set your API keys live (a) in particular markets or (b) in all your selected markets at once.

App Details

Markets ?

Country	Operator	Status
USA	AT&T	ACCEPTED
Germany	Telekom DE	ACCEPTED

Content and Category ?

- 3) Click **Back**.

App Details

Application Name	Platform	Version
WACTrek	Android	1.0

Description Space shoot'em up game.

- 4) You see that your app's API status is now **LIVE**.

The screenshot shows a table with columns: Application, Platform, Version, and Status. The application 'WACTrek' is listed with 'Android' as the platform and '1.0' as the version. The 'Status' column contains the text 'LIVE !' which is circled in blue.

Application	Platform	Version	Status
WACTrek	Android	1.0	LIVE !

Notes:

- This status is LIVE if your app API keys are live in any one market – a status of LIVE does not indicate that your API keys are live in all markets.
- To remove LIVE status for your API keys in a market, simply return to the App Details screen and revoke the live status for one or all markets.

The screenshot shows a table with columns: Country, Operator, and Status. For the USA market, the operator is AT&T and the status is LIVE. There is a 'Revoke' button next to the status entry, which is circled in blue. A red button labeled 'Set Live in this Market' is also visible.

Country	Operator	Status
USA	AT&T	LIVE

- You can add also additional markets at any time, click **Manage Markets**.

The screenshot shows the same table as the previous one, but the status for the USA market has been changed to 'REMOVED'. The 'Revoke' button is now highlighted in grey, indicating it has been clicked. The 'Set Live in this Market' button remains red.

Country	Operator	Status
USA	AT&T	REMOVED

Step 9: Publish App to Markets

That's it – your WAC APIs have LIVE status, indicating that you are ready to publish your app to its respective markets. Consider using WAC's publishing service, which makes it easy to publish to many major operators.

- **Having WAC Push Your App to Mobile Operators**
- **WAC's Support Policy**

Having WAC Push Your App to Mobile Operators

You can use WAC's easy publishing service to publish your app to subscribers of the world's leading mobile operators.

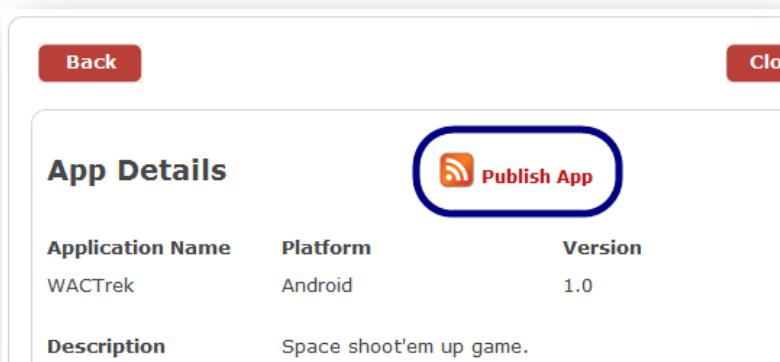
- See the list of operator markets: <https://www.wacapps.net/live-operators1>
- Find out more about WAC's easy publishing service: <https://www.wacapps.net/wac-apps>

If you decide to use this service for your app, start by activating your WAC API account for WAC's publishing service:

1. Go to your app's **App Details screen**.



2. Click the **Publish App icon**.



3. Your WAC account is now activated for WAC's publishing service and you are logged in there. From here follow the [WAC Apps Developer Guide](#) for illustrated instructions on how to continue.

WAC Support Policy

WAC's best practice is to resolve app user questions and issues within 3 working days. This commitment to quality customer service is both a good idea and a necessity:

- Customers who receive prompt, high-quality support are more likely to make repeat purchases and recommend the service to others.
- More than this, WAC's payment service is required to satisfy Ofcom requirements for speed and ease of query and issue resolution. Developers play a key role in ensuring they and WAC satisfy these quality support requirements.

Quality support helps everyone – please be responsive when your customer needs help.