

# Integration Guide Application Model



### **Revision History**

| DATE        | DESCRIPTION |
|-------------|-------------|
| 03/May/2014 | Overview    |
|             |             |
|             |             |
|             |             |
|             |             |

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### **Overview**

The Apps model of PagSeguro allows your App to create checkouts, receive payment notifications among other features in the name of the client without the need to configure tokens, return URLs and other information in your PagSeguro account.

As such, your client can register in your platform, authorize it and start to sell without the need to include information or enter the PagSeguro account for create the settings.

The Apps model of PagSeguro is available for accounts of the <u>Seller</u> and <u>Enterprise</u> type.

# **Integration Stages**

The integration of the Apps Model includes some basic stages:

| <b>1.</b> Apps          | Create and manage an App.   |
|-------------------------|---|
|                         |   |
| <b>2.</b> Authorization | Obtain permission from your client to create checkouts, perform searches among other actions.                                       |
|                         |   |
| <b>3.</b> Payments      | Create checkouts and direct the buyer to the website of<br>PagSeguro, where he/she can safely and conveniently make the<br>payment. |
|                         |   |
| <b>4.</b> Notifications | Receive notifications informing the status of the authorization and the billing.  |
|                         |   |
| 5. Search               | Perform searches in PagSeguro to check up on your transactions at any time.   |

It is important to follow the steps above in order to fully understand the tool.

#### Apps

In order to use PagSeguro's App model you need to create an App. This App will be responsible for centralizing the authorizations granted by your clients.



**Warning:** Since the Apps model is a tool allowed only for some partners, it is accessed through a few direct URLs that you will see throughout the documentation.



#### In order to create a new App, access the link

https://pagseguro.uol.com.br/aplicacao/listagem.html and click on "create you Apps" as shown in Image 1:



You can also directly access the registration page through the link <u>https://pagseguro.uol.com.br/aplicacao/cadastro.html</u>

| On the creation page | , you must fill out the | data requested: |
|----------------------|-------------------------|-----------------|
|----------------------|-------------------------|-----------------|

| FIELD              | DESCRIPTION  |
|--------------------|--|
| Name of App        | This name will appear for you and for other clients that will use your App.  |
| ID of App          | The ID of the App will be the code that identifies this App in<br>PagSeguro.<br><b>Note:</b> PagSeguro will suggest an ID based on the name that you<br>chose in the preceding field.                          |
| Description of App | Write the description that will appear to the users in your App. Be objective and briefly explain its purpose.   |
| URL of App         | Type in the URL where your App will be available for access on the internet.   |
| Logo               | Inform the address (URL) of your logo or upload the image file.<br><b>Note:</b> No more than 500kbytes, accepted formats: JPG, GIF, PNG, BMP. Your logo may be reduced to the maximum size of 150 x 55 pixels. |
| Notification URL   | Type in the URL where you will receive the notifications performed in your App.  |
| Redirect URL       | Type in the URL where the user will be taken after the payment has been completed.   |





You can also enable the redirect with the transaction code. With the enabled option, PagSeguro will send as a parameter, via GET, the authorization code that was generated. Your App may use this code to display the authorization information to the client.

If this option is enabled, you can choose the name of the GET parameter that will be used according to Image 2.

| Redirecionamento com o código da transação  |  |  |
|---|--|--|
| Para facilitar a sua integração, o PagSeguro irá enviar como parâmetro, via C<br>esse código para exibir ao comprador, ou mesmo para consultar os dados d | GET, o código da transaçã<br>a transação no nosso se | io que foi gerado. Sua aplicação poderá utilizar<br>rviço de consulta de transações. |
| Exemplo de redirecionamento:  |  |  |
| http://www.sualoja.com.br/retornopagamento.php  | /?transaction_id=                                    | "B6E12D75-33-A1A5-63D261"  |
| URL de retorno que você definir   | Parâmetro  | Código da transação  |
| Ativado     Desativado     Escolha um nome para o parâmetro:     transaction_id   |  |  |
| exemplos: id, transaction_code, id_pagseguro  |  |  |
| Image   | 2  |  |

After creating your App, a summary with the App data, including the appKey will be displayed as shown in Image 3.

| Sua aplicação foi cadastrada com sucesso.<br>Para gerenciar essa aplicação acesse Minhas Aplicações.  |
|---|
| LojaModelo!         Image: Secrição da aplicação: Aplicação de exemplo         Aplicação de exemplo         In da aplicação: Iojamodelo 1         Intp://www.lojamodelo.com.br/app         Intp://www.lojamodelo.com.br/notificacao         Intp://www.lojamodelo.com.br/notificacao         Intp://www.lojamodelo.com.br/redirecionamento         Intp://www.lojamodelo.com.br |
| Ir para Minhas Aplicações   |





**Warning:** Keep your app key in a safe place because it is essential for you to make the iterations with the Payment and Signature APIs.

After storing your app key, click on "Go to My Apps" to see a list of apps. The list is shown as in Image 4.

| MINHAS AP             | LICAÇÕES  |  |
|-----------------------|---|--|
| Gerencie todas as apl | icações que você criou.                         |  |
| LojaModelo1           | Descrição da aplicação:<br>Aplicação de exemplo | 🔀 Excluir aplicação 🗔 Editar aplicação |
|                       |   | Image 4                                |

You can edit the information of your app, including generate a new appKey at any time by clicking on Edit app > Generate new key. With the exception of the app ID, all the app fields are editable.

It is also possible to exclude an app. By exclusing an app, all permissions granted to it will be lost, that is:

- It will no longer be able to create checkouts
- It will no longer be able to receive payments based on the checkouts created prior to the removal
- It will continue to receive notifications
- It will no longer be displayed on the list of apps of the integrator
- It will no longer be displayed on the list of granted authorizations

## **Authorization**

After creating an app, you can ask for your client's authorization to create checkout, signatures, perform searches among other actions.

The authorization flow is shown in Image 5:





# Informing the request data

The request to the Authorization API is done by informing the authorization data via XML in combination with the parameters of authentication of your app (appId and appKey) using the POST method.

URL of PagSeguro's Authorization API
https://ws.pagseguro.uol.com.br/v2/authorizations/request?appId={appId}
&appKey={appKey}

#### **Authentication parameters**

| PARAMETER | DESCRIPTION  |
|-----------|--|
| appld     | ID of App<br><b>Presence:</b> Required<br><b>Type:</b> Text<br><b>Format:</b> A string of no more than 60 characters.  |
| appkey    | Specifies the token that corresponds to the PagSeguro App that is<br>making the request.<br>Presence: Required<br>Type: Text<br>Format: A string of 32 characters. |



See below the HTTP header needed to make the request to the authorization API of PagSeguro informing the data in XML format.

The header **Content-Type** must be informed as in the example below:

Content-Type: application/xml; charset=ISO-8859-1

**Note:** if your app or store does **not** use the set of characters **ISO-8859-1**, ex., (**UTF-8**), you will need to replace the charset parameter of the example above.

The response of the transaction search by code is given in XML format, as shown below.

```
1. <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

- 2. <authorizationRequest>
- 3. <reference>REF1234</reference>
- 4. <permissions>
- 5. <code>CREATE\_CHECKOUTS</code>
- 6. <code>RECEIVE\_TRANSACTION\_NOTIFICATIONS</code>
- 7. <code>SEARCH\_TRANSACTIONS</code>
- 8. <code>MANAGE\_PAYMENT\_PRE\_APPROVALS</code>
- 9. </permissions>

10. <redirectURL>http://seusite.com.br/redirect</redirectURL>

- 11. <notificationURL>http://seusite.com.br/notification</notificationURL>
- 12. </authorizationRequest>

#### **Request parameters**

The parameters expected by the Request API are case sensitive and are described in the table below:

| XML PARAMETER           | DESCRIPTION   |
|-------------------------|---|
|                         | ID used to refer to the authorization of your request.                                      |
| <reference></reference> | Presence: Optional.<br>Type: Text.<br>Format: Free, restricted to a total of 20 characters. |



| XML PARAMETER                       | DESCRIPTION  |   |  |
|-------------------------------------|--|---|--|
|                                     | Permission to be authorized<br><b>Presence:</b> Required.<br><b>Type:</b> Text.<br><b>Accepted values:</b>   |   |  |
|                                     | Value  | Description   |  |
|                                     | CREATE_CHECKOUTS   | The app may direct buyers to<br>PagSeguro and may mediate<br>payments   |  |
| <permissions></permissions>         | RECEIVE_TRANSACTION_NOTIFICATIONS  | The app may receive<br>transaction notification<br>searches that it mediated  |  |
|                                     | SEARCH_TRANSACTIONS  | The app may search the transactions that it mediated  |  |
|                                     | MANAGE_PAYMENT_PRE_APPROVALS   | The app may manage and use payment pre-approvals  |  |
|                                     | DIRECT_PAYMENT   | The app may manage payments<br>via transparent checkout.<br><b>Warning:</b> It is necessary to clear<br>such through PagSeguro's<br>commercial area |  |
|                                     |  | ·   |  |
| <redirecturl></redirecturl>         | URL to where the buyer will be redirected a<br>authorization flow. If it is informed in the ca<br>URL informed in the registration of the app<br><b>Presence:</b> Required.<br><b>Type:</b> Text.<br><b>Format:</b> A valid URL, restricted to 255 chara   | after the completion of the<br>all, it will be used instead of the<br>acters.   |  |
| <notificationurl></notificationurl> | URL to where the notification will be direct<br>authorization flow. If it is informed in the ca<br>URL informed in the registration of the app<br><b>Presence</b> : Required.<br><b>Type:</b> Text.<br><b>Format:</b> A valid URL, restricted to 255 chara | ed after the completion of the<br>all, it will be used instead of the<br>acters.  |  |

### **Client data and suggestion for registration**

While creating an authorization you can also forward the client data. As such, if the Seller's email sent via the API is already registered in the base, a login with this e-mail will be suggested. If the client does not have an account, the data will be used as a suggestion for a registration and this will make it easier for the client's registration.



**Warning:** The more correct data is informed, the greater are the chances of converting the Seller that has not been registered in this flow.





It is possible to forward the data of a Seller client (using the CPF number) as well as a Enterprise client (using the CNPJ number).

Se below an example of the structured XML to represent the data of an authorization with a suggestion of a **Seller** account:

| 1.  | xml version="1.0" encoding="UTF-8" standalone="yes"?  |
|-----|---|
| 2.  | <authorizationrequest></authorizationrequest>   |
| з.  | <reference>123</reference>  |
| 4.  | <pre><pre>cypermissions&gt;</pre></pre>   |
| 5.  | <code>CREATE_CHECKOUTS</code>   |
| 6.  | <code>SEARCH_TRANSACTIONS</code>  |
| 7.  | <code>RECEIVE_TRANSACTION_NOTIFICATIONS</code>  |
| 8.  |   |
| 9.  | <redirecturl>http://seusite.com.br/redirect</redirecturl>   |
| 10. | <pre><notificationurl>http://seusite.com.br/notification</notificationurl></pre>  |
| 11. | <account></account>   |
| 12. | <email>usuario@seusite.com.br</email>   |
| 13. | <type>SELLER</type>   |
| 14. | <person></person>   |
| 15. | <name>Antonio Carlos</name>   |
| 16. | <documents></documents>   |
| 17. | <document></document>   |
| 18. | <type>CPF</type>  |
| 19. | <value>23606838450</value>  |
| 20. |   |
| 21. |   |
| 22. | <pre><br/> <br/> &lt;</pre> |
| 23. | <pre><pre>cpnones&gt;</pre></pre>   |
| 24. | <pre><pre>cturesHOME</pre></pre>  |
| 25. | <pre><cype>none</cype> </pre>   |
| 20. |   |
| 27. |   |
| 20. | chones  |
| 30. | <type>MOBTLE</type>   |
| 31. | <areacode>11</areacode>   |
| 32. | <number>976302323</number>  |
| 33. |   |
| 34. |   |
| 35. | <address></address>   |
| 36. | <pre><postalcode>01452002</postalcode></pre>  |
| 37. | <pre><street>Av. Brig. Faria Lima</street></pre>  |
| 38. | <number>1384</number>   |
| 39. | <complement>5o andar</complement>   |
| 40. | <pre><district>Jardim Paulistano</district></pre>   |
| 41. | <city>Sao Paulo</city>  |
| 42. | <state>SP</state>   |
| 43. | <country>BRA</country>  |
| 44. |   |
| 45. |   |
| 46. |   |
| 47. |   |

See below an example of a structured XML to represent the data of an authorization with the suggestion of a Enterprise account:

| 1.        | xml version="1.0" encoding="UTF-8" standalone="yes"?                             |
|-----------|--|
| 2.        | <authorizationrequest></authorizationrequest>                                    |
| 3.        | <reference>123</reference>   |
| 4.        | <pre><permissions></permissions></pre>   |
| 5.        | <code>CREATE_CHECKOUTS</code>  |
| 6.        |  |
| 7.        | <pre><redirecturl>http://seusite.com.br/redirect</redirecturl></pre>             |
| 8.        | <pre><notificationurl>http://seusite.com.br/notification</notificationurl></pre> |
| 9.        | <account></account>  |
| 10.       | <pre><email>usuario@seusite.com.br</email></pre>                                 |
| 11.       | <type>COMPANY</type>   |
| 12.       | <company></company>  |
| 13.       | <name>Seu Site</name>  |
| 14.       | <documents></documents>  |
| 15.       | <document></document>  |
| 16.       | <type>CNPJ</type>  |
| 17.       | <value>17302417000101</value>  |
| 18.       |  |
| 19.       |  |
| 20.       | <pre><displayname>Seu Site</displayname></pre>                                   |
| 21.       | <pre><websiteurl>http://www.seusite.com.br</websiteurl></pre>                    |
| 22.       | <pre><partner></partner></pre>   |
| 23.       | <name>Antonio Carlos</name>  |
| 24.       | <documents></documents>  |
| 25.       | <document></document>  |
| 26.       | <type>CPF</type>   |
| 27.       | <value>34163749160</value>   |
| 28.       |  |
| 29.       |  |
| 30.       | <br><birthdate>1982-02-05</birthdate>  |
| 31.       |  |
| 32.       | <pre><phones></phones></pre>   |
| 33.       | one>   |
| 34.       | <type>BUSINESS</type>  |
| 35.       | <areacode>11</areacode>  |
| 36.       | <number>30302323</number>  |
| 37.       |  |
| 38.       | <pre><phone></phone></pre>   |
| 39.       | <type>BUSINESS</type>  |
| 40.       | <areacode>11</areacode>  |
| 41.       | <number>9/6302323</number>   |
| 42.       |  |
| 43.       |  |
| 44.       | <address></address>  |
| 45.       | <pre><pre>cpostalcode&gt;01452002</pre>/postalcode&gt;</pre>                     |
| 46.       | <pre><street>Av. Brig. Faria Lima</street> </pre>                                |
| 47.       | <number>1364</number>  |
| 40.       | <pre><comprement></comprement>oo anuars/comprement/&gt;</pre>                    |
| 47.<br>50 |  |
| 50.       | <pre>////////////////////////////////////</pre>                                  |
| 52        |  |
| 52.       |  |
| 54        |  |
| 55        |  |
| 56        |  |
|           | ·/ anone =======   |



#### **Request parameters**

The parameters below are aligned with the tag <authorizationRequest>.

| XML PARAMETER   | DESCRIPTION  |
|---|--|
| <account></account>   | This field is the root of the XML and includes the registration data.<br><b>Presence:</b> Optional.  |
| <account><br/><email></email></account>   | Account to be registered<br><b>Presence:</b> Optional.<br><b>Type:</b> Text.<br><b>Format:</b> A valid email (ex., <u>user@site.com.br</u> ), restricted to 60<br>characters.                            |
| <account><br/><type></type></account>   | Account type.<br>Presence: Optional.<br>Type: Text.<br>Format: The account types are: PERSONAL, SELLER or COMPANY  |
| <account><br/><person></person></account>   | Groups seller data.  |
| <account><br/><seller><br/><name></name></seller></account>   | Full name of seller<br>Presence: Optional.<br>Type: Text.<br>Format: Free, restricted to 50 characters.  |
| <account><br/><seller><br/><documents></documents></seller></account>   | Groups the information of seller's document.   |
| <account><br/><seller><br/><documents><br/><document></document></documents></seller></account>                                       | Groups the information of seller's document.<br><b>Presence:</b> Optional (CPF number).  |
| <account><br/><seller><br/><documents><br/><document><br/><type></type></document></documents></seller></account>                     | Document type<br><b>Presence:</b> Required, if the tag document is informed.<br><b>Type:</b> Text.<br><b>Format:</b> The document type allowed for the seller is only CPF.                               |
| <account><br/><seller><br/><documents><br/><document><br/><type><br/><value></value></type></document></documents></seller></account> | CPF number of seller<br><b>Presence:</b> Required, if the tag document is informed.<br><b>Type:</b> Number.<br><b>Format:</b> Will accept only valid and unrestricted CPF numbers (in<br>PagSeguro/UOL). |



| XML PARAMETER   | DESCRIPTION   |
|---|---|
| <account><br/><seller><br/><birthdate></birthdate></seller></account>               | Date of birth of Seller<br>Presence: Optional.<br>Type: Text.<br>Format: DD/MM/AAAA.  |
| <account><br/><seller><br/><phones></phones></seller></account>                     | Groups the telephone information of seller.   |
| <account><br/><seller><br/><phones><br/><phone></phone></phones></seller></account> | Groups the telephone information of seller.<br><b>Presence:</b> Optional.   |
| <account><br/><seller></seller></account>   | Telephone type <b>Presence:</b> Required, if tag phone is informed.   |
| <pre><phones> <phone> <type></type></phone></phones></pre>                          | <b>Type:</b> Text.<br><b>Format:</b> The types of phone numbers are HOME, MOBILE and BUSINESS.  |
| <account><br/><seller></seller></account>   | Area code of phone.   |
| <pre><pre>cphones/ <pre>careaCode&gt;</pre></pre></pre>                             | <ul> <li>Presence: Required, if tag phone is informed.</li> <li>Type: Number.</li> <li>Format: A 2-digit number that represents a valid area code (DDD).</li> </ul> |
| <account><br/><seller></seller></account>   | Telephone number.   |
| <pre><pre><pre>cphone&gt; <pre><number></number></pre></pre></pre></pre>            | <b>Type:</b> Number.<br><b>Format:</b> Accepts only numbers with 8 to 9 digits.   |
| <account><br/><company></company></account>   | Groups the company data   |
| <account><br/><company></company></account>   | Full name of company  |
| <ur></ur>   | Presence: Optional.<br>Type: Text.<br>Format: Free, restricted to 50 characters.  |
| <account><br/><company><br/><documents></documents></company></account>             | Groups the information of the documents of the legal representative of the company and the company.   |



| XML PARAMETER   | DESCRIPTION  |
|---|--|
| <account><br/><company><br/><documents><br/><document></document></documents></company></account>                                     | Groups the information of the documents of the legal representative of the company and the company. <b>Presence:</b> Optional (CPF and CNPJ)   |
| <account><br/><company><br/><documents><br/><document><br/><type></type></document></documents></company></account>                   | CNPJ of company<br><b>Presence:</b> Required, if tag document is informed.<br><b>Type:</b> Number.<br><b>Format:</b> Accepts only valid and unrestricted CNPJ numbers (in<br>PagSeguro/UOL).                           |
| <account><br/><company><br/><websiteurl></websiteurl></company></account>   | URL of company website<br><b>Presence:</b> Optional.<br><b>Type:</b> Text.<br><b>Format:</b> a valid URL with no more than 256 characters.   |
| <account><br/><company><br/><partner></partner></company></account>   | Groups the data of the legal representative of the company.  |
| <account><br/><company><br/><partner><br/><name></name></partner></company></account>   | Name of legal representative of company<br><b>Presence:</b> Optional.<br><b>Type:</b> Text.<br><b>Format:</b> Free, restricted to 50 characters.   |
| <account><br/><seller><br/><documents><br/><document><br/><type><br/><value></value></type></document></documents></seller></account> | CPF of seller<br><b>Presence:</b> Required, if tag document is informed.<br><b>Type:</b> Number.<br><b>Format:</b> When the type is CPF, it will accept only valid and<br>unrestricted CPF numbers (in PagSeguro/UOL). |
| <account><br/><company><br/><partner><br/><birthdate></birthdate></partner></company></account>                                       | Date of birth of Seller<br>Presence: Optional.<br>Type: Text.<br>Format: DD/MM/AAAA.   |
| <account><br/><address></address></account>   | Groups the address data of the seller or company. Presence: Optional.  |
| <account><br/><address><br/><postalcode></postalcode></address></account>   | Postal code of address of seller or company.<br><b>Presence:</b> Optional.<br><b>Type:</b> Number.<br><b>Format:</b> An 8-digit number corresponding to a valid postal code.   |



| XML PARAMETER   | DESCRIPTION   |
|---|---|
| <account><br/><address><br/><street></street></address></account>         | Street name of address of seller or company.<br>Presence: Optional.<br>Type: Text.<br>Format: Text with numbers, letters (no accent), spaces and<br>characters "." (dot) and "-" hyphen, restricted to 80 characters. The<br>value of this field will only be registered when the postal code<br>informed does not have a street name linked to it.                     |
| <account><br/><address><br/><number></number></address></account>         | Number of address of seller or company.<br>Presence: Optional.<br>Type: Text.<br>Format: Free text, restricted to 20 characters.  |
| <account><br/><address><br/><complement></complement></address></account> | Complement of address of seller or company.<br>Presence: Optional.<br>Type: Text.<br>Format: Text with numbers, letters (no accent), spaces and<br>characters "." (dot) and "-" hyphen, restricted to 40 characters.  |
| <account><br/><address><br/><district></district></address></account>     | District of address of seller or company.<br><b>Presence:</b> Optional.<br><b>Type:</b> Text.<br><b>Format:</b> Text with numbers, letters (no accent), spaces and<br>characters "." (dot) and "-" hyphen, restricted to 60 characters. The<br>value of this field will only be registered when the postal code<br>informed does not have a district name linked to it. |
| <account><br/><address><br/><city></city></address></account>             | City of address of seller or company.<br><b>Presence:</b> Optional.<br><b>Type:</b> Text.<br><b>Format:</b> Free text. The city linked to the postal code informed will<br>be registered.   |
| <account><br/><address><br/><state></state></address></account>           | State of address of seller or company.  Presence: Optional.  Type: Toyt   |

**Type:** Text. **Format:** Free text. The state linked to the postal code informed will be registered.



| XML PARAMETER   | DESCRIPTION   |
|---|---|
| <account><br/><address><br/><country></country></address></account> | ISO code of country of address of seller or company.<br><b>Presence:</b> Optional.<br><b>Type:</b> Text.<br><b>Format:</b> from 2 to 10 numbers, letters and the character "-"<br>(hyphen). |

# **Response of Authorization API**

The response is given in XML format. The example below shows a successful response to a call made to the authorization API:

1. <authorizationRequest>

- 2. <code>D8DD848AC9C98D9EE44C5FB3A1E53913</code>
- 3. <date>2011-02-25T11:40:50.000-03:00</date>
- 4. </authorizationRequest>

The tables below describe the returned parameters.

| PARAMETER   | DESCRIPTION  |
|---|--|
| <authorizationrequest></authorizationrequest>                   | Root of XML response file. Contains the data of the created authorization code.  |
| <authorizationrequest><br/><code></code></authorizationrequest> | Redirect code created. This code must be used to direct the buyer to the authorization flow Type: Text. Format: A string of 32 characters. |
| <authorizationrequest><br/><date></date></authorizationrequest> | Request date.<br><b>Type:</b> Date/Time.<br><b>Format:</b> YYYY-MM-DDThh:mm:ss.sTZD.   |

Should an error occur in the call to the Authorization API, an error response will be returned, as shown below. It will indicate all the errors identified in the call:

| 1. | <errors></errors>  |
|----|--|
| 2. | <error></error>  |
| 3. | <code>11064</code>   |
| 4. | <pre><message>redirectURL must have the same domain as application</message></pre> |
|    | URL.   |
| 5. |  |
| 6. |  |



The table below describe the parameters returned.

| PARAMETER   | DESCRIPTION  |
|---|--|
| <errors></errors>                                       | List of errors.  |
| <errors><br/><error></error></errors>                   | Data of error found.   |
| <errors><br/><error><br/><code></code></error></errors> | Error code.<br><b>Type:</b> Text.<br><b>Format:</b> See Table of Errors on page 34.          |
| < errors ><br><error><br/><message></message></error>   | Descriptive message.<br><b>Type:</b> Text.<br><b>Format:</b> See Table of Errors on page 34. |

# Directing the buyer to the authorization flow

After making a successful call to the API, you must direct the buyer to the authorization flow, using the request code returned. The example below shows an assembled URL for the user to start the authorization flow.

https://pagseguro.uol.com.br/v2/authorization/request.jhtml?code={resquestCode}

The table below describes the parameter used

| PARAMETER | DESCRIPTION  |
|-----------|--|
| Code      | Request code returned by call to Authorization API of PagSeguro <b>Presence:</b> Required. |

# **Authorization Flow**

By making a successful call to the authorization API and redirecting the client to PagSeguro, a screen based on the information that you sent in the call will be displayed.

If you sent no client data or sent the data and PagSeguro confirmed that this client has no PagSeguro account, a screen proposing the creation of a primary account below the option of logging into PagSeguro as shown in image 6 below:



| pagseguro                                     |   |
|---|---|
| Você precisa de uma co                        | nta PagSeguro para continuar                      |
| Crie uma conta PagSeguro<br>É fácil e rápido! |   |
| Pessoa física<br>Tipo vendedor - requer CPF   | Pessoa jurídica<br>Tipo empresarial - requer CNPJ |
| <b>Já tem uma conta PagSeguro?</b>            |   |
|   | Image 6   |

If you sent the data and PagSeguro confirmed that this client has a PagSeguro account, the fields where he/she can log into PagSeguro will be displayed and below the option proposing the creation of an account as shown in image 7 below:

| Você já está cadastrado no PagSeguro |  |  |
|--------------------------------------|--|--|
| nforme sua senha para prosseguir c   | om o cadastro de vendedor no PagSeguro   |  |
| E-mail                               | Senha  |  |
| email-do-vendedor@uol.com.br         |  |  |
| Entrar                               | Para sua segurança, a senha deve possuir<br>entre 5 e 8 caracteres misturando letras e números.<br>Esqueci a minha senha |  |
|                                      |  |  |



After having created the account or having typed in your password, a screen informing the client that your app wishes to gain access to the permissions sent in the authorization call will be displayed. The client also receives an explanation of each permission and the option to authorize or not the app as shown in Image 8 below:



After the client's decision, by clicking on Authorize or Do not Authorize, he/she will be redirected to your return URL. In this return, PagSeguro will send via GET, the notification code of the authorization so you can immediately check the result of this authorization.

The return will be carried out as follows: http://www.seusite.com.br/retorno?notificationCode={notificationCode}

Additionally, PagSeguro will send a notification to your website via POST.

# Notifications

After the buyer authorizes the app, PagSeguro will sent via POST a notification to your system with the authorization status.

Image 9 illustrates the operation of the notification. Please note that it is PagSeguro that initiates the notification process by sending a code to your system.





# **Configuring the receipt of notifications**

In order to use the Notifications API, you must first have created an app. The address (URL) of the notification is configured at the time of creation of the app, however, it can also be transferred as a parameter in the call as was shown earlier.

To view or change this URL in an already-existing app must be done through the app list page at the <u>https://pagseguro.uol.com.br/aplicacao/listagem.jhtml</u>, by clicking on the button **Edit app**.

## **Receiving a transaction notice**

After the address to where PagSeguro will send notifications has been set up, the next step is to prepare the system to receive the notification code.

PagSeguro sends the notifications to the URL that you configured using the HTTP protocol under the **POST** method.

See below an example of a notification sent by PagSeguro (the lines were divided to ease reading).

```
POST http://lojamodelo.com.br/notificacao HTTP/1.1
Host:pagseguro.uol.com.br
Content-Length:85
Content-Type:application/x-www-form-urlencoded
notificationCode=766B9C-AD4B044B04DA-77742F5FA653-E1AB24
&notificationType=applicationAuthorization
```



| PARAMETER        | DESCRIPTION   |
|------------------|---|
| notificationCode | The code that identifies the notification. This code must be used to search the notification and get the data of the associated transaction/subscription. Note that the code that identifies the notification is not the same as the code that identifies the transaction.<br><b>Type:</b> Text.<br><b>Format:</b> A string of 39 characters. |
| notificationType | The type of notification sent.<br><b>Type:</b> Text.<br><b>Format:</b> For authorization notifications it will be<br>applicationAuthorization   |

Note that the notification has no information pertaining to the authorization. Therefore, as soon as your system receives a notification, it must search it to obtain the data, as described below.

It is worthwhile noting that, during the time that your system has not searched a notification sent, PagSeguro will send it again **every 2 hours**, up to a **maximum of 5 times**. If your system is unavailable for a period greater than this and did not receive any of the notifications, it is still possible to get the data of your authorizations using the Authorization Search.



### **Searches**

PagSeguro uses a Search API so you can obtain the data of your authorizations easily, swiftly and safely.

See below how to perform a search:

# Searching an authorization by notification code

This search must be used to search a notification received through POST sent by PagSeguro or through the GET parameter (notificationCode) sent through the redirect of the authorization page of PagSeguro in order to obtain the authorization data. The call must be made using the **GET** method.

Search URL:

```
https://ws.pagseguro.uol.com.br/v2/authorizations/notifications/{notificationCode}?ap
pId={appId}&appKey={appKey}
```

#### **Authentication parameters**

| PARAMETER | DESCRIPTION   |  |
|-----------|---|--|
| appld     | App ID.<br>Presence: Required.<br>Type: Text.<br>Format: A string of up to 60 characters.   |  |
| аррКеу    | Specifies the token corresponding to the PagSeguro app that is<br>making the request.<br>Presence: Required.<br>Type: Text.<br>Format: A string of 32 characters. |  |

#### **Request parameters**

| PARAMETER  | DESCRIPTION  |
|--|--|
| notificationCode ( <b>after notifications/</b> ) | <ul> <li>ID code of notification.</li> <li>Informs the notification code that you must search. The code must be informed in the URL path. You must use the code that you received by the notificationCode parameter at the sending of the notification.</li> <li>Presence: Required.</li> <li>Type: Text.</li> <li>Format: A string of 39 characters.</li> </ul> |



# Searching an authorization by its code

This search provides access to all the data of an authorization based on its ID code. The call must be made using the **GET** method.

#### Search URL:

https://ws.pagseguro.uol.com.br/v2/authorizations/{authorizationCode}?appId={appId}&a
ppKey={appKey}

#### **Authentication parameters**

| PARAMETER | DESCRIPTION   |  |
|-----------|---|--|
| appld     | App ID.<br>Presence: Required.<br>Type: Text.<br>Format: A string of up to 60 characters.   |  |
| аррКеу    | Specifies the token corresponding to the PagSeguro app that is<br>making the request.<br>Presence: Required.<br>Type: Text.<br>Format: A string of 32 characters. |  |

#### **Request Parameters**

| PARAMETER   | DESCRIPTION  |
|---|--|
| authorizationCode( <b>after</b><br>authorizations/) | Code that identifies the authorization to be consulted/cancelled.<br><b>Presence:</b> Required in the search of an authorization.<br><b>Type:</b> Text.<br><b>Format:</b> A string of 32 characters. |



For both searches above, the response is given in XML format, as shown below.

#### The following tables describe the parameters returned by the queries:

| PARAMETER   | DESCRIPTION   |
|---|---|
| <authorization></authorization>   | Root of XML response file. Contains the data of the authorization.  |
| <authorization><br/><code></code></authorization>   | Authorization code.<br><b>Type:</b> Text.   |
| <authorization><br/><creationdate></creationdate></authorization>                             | Creation date of authorization<br><b>Type:</b> Text.  |
| <authorization><br/><reference></reference></authorization>                                   | ID that was used to refer to the authorization at the time of the request.<br><b>Type:</b> Date/Time.<br><b>Format:</b> YYYY-MM-DDThh:mm:ss.sTZD. |
| <authorization><br/><permissions></permissions></authorization>                               | Represents the permissions returned by the authorization.<br><b>Type:</b> Text.   |
| <authorization><br/><permissions><br/><permission></permission></permissions></authorization> | Data of permission returned by search.<br><b>Type:</b> Text.  |



| PARAMETER   | DESCRIPTION   |                    |  |
|---|---|--------------------|--|
|   | Code of permission.<br><b>Type:</b> Text.   |                    |  |
|   | Value   |                    | Description  |
|   | CREATE_CHECKOUTS  |                    | The app may direct the buyers<br>to PagSeguro and mediate the<br>payments for you. |
| <authorization></authorization>   | RECEIVE_TRANSAC   | TION_NOTIFICATIONS | The app may receive and search   |
| <permissions></permissions>   |   |                    | the notifications of the   |
| <permission><br/><code></code></permission>   |   |                    | transactions that it mediated for you.   |
|   | SEARCH_TRANSACT   | IONS               | The app may search the   |
|   |   |                    | transactions that it mediated for  |
|   |   |                    | you.   |
|   | MANAGE_PAYMENI_   | PRE_APPROVALS      | The app may search the   |
|   |   |                    | vou.   |
|   |   |                    |  |
| <authorization></authorization>   | Status of client permission.<br><b>Type:</b> Text.  |                    |  |
| <permissions></permissions>   | Value   | Description        |  |
| <permission></permission>   | PENDING   | Approval pending   |  |
| <status></status>   | APPROVED  | Approved by client |  |
|   | DENIED  | Denied by client   |  |
| <authorization><br/><permissions><br/><permission><br/><lastupdate></lastupdate></permission></permissions></authorization> | Date/time in which the last change occurred in the permission status.<br><b>Type:</b> Text. |                    |  |



# Searching all the app authorization

Through this search, you can check all the authorizations linked to your app. The call must be made using the **GET** method.

Search URL:

https://ws.pagseguro.uol.com.br/v2/authorizations?appId={appId}&appKey={appKe}

The result is displayed in XML as shown below:

| 1.  | <authorizationsearchresult></authorizationsearchresult>               |
|-----|---|
| 2.  | <pre><date>2011-03-30T11:09:11.000-03:00</date></pre>                 |
| 3.  | <authorizations></authorizations>                                     |
| 4.  | <authorization></authorization>                                       |
| 5.  | <code>5A220D39B3B31E8BB4E3EFA4FCC4E6A3</code>                         |
| 6.  | <pre><creationdate>2011-03-21T16:32:21.000-03:00</creationdate></pre> |
| 7.  | <reference>123</reference>  |
| 8.  | <pre><permissions></permissions></pre>                                |
| 9.  | <pre><permission></permission></pre>                                  |
| 10. | <code>SEARCH_TRANSACTIONS</code>                                      |
| 11. | <status>APPROVED</status>   |
| 12. | <lastupdate>2011-03-21T16:32:21.000-03:00</lastupdate>                |
| 13. |   |
| 14. | <pre><permission></permission></pre>                                  |
| 15. | <code>RECEIVE_TRANSACTION_NOTIFICATIONS</code>                        |
| 16. | <status>APPROVED</status>   |
| 17. | <lastupdate>2011-03-24T16:15:07.000-03:00</lastupdate>                |
| 18. |   |
| 19. | <pre><permission></permission></pre>                                  |
| 20. | <code>CREATE_CHECKOUTS</code>   |
| 21. | <status>APPROVED</status>   |
| 22. | <lastupdate>2011-03-21T16:32:21.000-03:00</lastupdate>                |
| 23. |   |
| 24. |   |
| 25. |   |
| 26. |   |
| 27. |   |

The tables below describe the parameters returned by the searches.

| PARAMETER   | DESCRIPTION   |
|---|---|
| <authorizationsearchresult></authorizationsearchresult> | Root of XML response file. Contains the data of the authorization search. |
| <date></date>   | Informs the date/time in which the search occurred.                       |



| PARAMETER   | DESCRIPTION   |   |  |
|---|---|---|--|
| <authorizationsearchresult><br/><authorizations><br/><authorization></authorization></authorizations></authorizationsearchresult>   | Contains the authorization data.  |   |  |
| <authorizationsearchresult><br/><authorizations><br/><authorization><br/><code></code></authorization></authorizations></authorizationsearchresult>   | Authorization code.<br><b>Type:</b> Text.   |   |  |
| <authorizationsearchresult><br/><authorizations><br/><authorization><br/><creationdate></creationdate></authorization></authorizations></authorizationsearchresult>                             | Authorization Creation date:<br><b>Type:</b> Text.  |   |  |
| <authorizationsearchresult><br/><authorizations><br/><authorization><br/><reference></reference></authorization></authorizations></authorizationsearchresult>                                   | ID that was used to refer to the authorization at the time of the request.<br><b>Type:</b> Date/Time.<br><b>Format:</b> YYYY-MM-DDThh:mm:ss.sTZD. |   |  |
| <authorizationsearchresult><br/><authorizations><br/><authorization><br/><permissions></permissions></authorization></authorizations></authorizationsearchresult>                               | Represents the permissions returned by the authorization.<br><b>Type:</b> Text.   |   |  |
| <authorizationsearchresult><br/><authorizations><br/><authorization><br/><permissions><br/><permission></permission></permissions></authorization></authorizations></authorizationsearchresult> | Data of permission returned by search.<br><b>Type:</b> Text.  |   |  |
|   | Code of permission.<br><b>Type:</b> Text.   |   |  |
|   | Value   | Description   |  |
| <authorizationsearchresult><br/><authorizations><br/><authorization><br/><permissions><br/><code></code></permissions></authorization></authorizations></authorizationsearchresult>             | CREATE_CHECKOUTS  | The app may direct the<br>buyers to PagSeguro<br>and mediate the<br>payments for you.                     |  |
|   | RECEIVE_TRANSACTION_NOTIFICATIONS   | The app may receive<br>and search the<br>notifications of the<br>transactions that it<br>mediated for you |  |
|   | SEARCH_TRANSACTIONS   | The app may search<br>the transactions that it<br>mediated for you.                                       |  |
|   | MANAGE_PAYMENT_PRE_APPROVALS  | The app may manage<br>and use payment pre-<br>approvals for you.  |  |



| PARAMETER   | DESCRIPTION  |                    |  |
|---|--|--------------------|--|
| <authorizationsearchresult></authorizationsearchresult>   | Status of client permission.<br><b>Type:</b> Text.                                   |                    |  |
| <authorizations></authorizations>   | Value  | Description        |  |
| <autnorization></autnorization>   | PENDING  | Approval pending   |  |
| <pre><pre>cpermission&gt;</pre></pre>   | APPROVED   | Approved by client |  |
|   | DENIED   | Denied by client   |  |
| <authorizationsearchresult><br/><authorizations><br/><authorization><br/><permissions><br/><permission><br/><lastupdate></lastupdate></permission></permissions></authorization></authorizations></authorizationsearchresult> | Date/time in which the last change occurred in the permission status.<br>Type: Text. |                    |  |

If an error occurs in the call to the Search API, in the parameters informed of if a technical failure occurs in the system, an error response will be returned, as shown below. It will indicate all the errors identified in the call:



The response XML fields of the search of a transaction notification are described below.

| PARAMETER   | DESCRIPTION  |
|---|--|
| <errors></errors>   | List of errors.  |
| <errors><br/><error></error></errors>                         | Data of error found.   |
| <errors><br/><error><br/><code></code></error></errors>       | Error code.<br><b>Type:</b> Text.<br><b>Format:</b> See Table of Errors on page 34.          |
| <errors><br/><error><br/><message></message></error></errors> | Descriptive message.<br><b>Type:</b> Text.<br><b>Format:</b> See Table of Errors on page 34. |



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### **Using APIs of PagSeguro**

After getting the authorization, your app can use PagSeguro's services in the name of the seller.

To use PagSeguro's APIs using the authorization granted by the client, simply replace the items **email** and **token** for **appId**, **appKey** and for the **authorizationCode** generated by the app. See below how to use the APIs available in PagSeguro with the App Model:

### **Payment API**

Without the use of the Application Model, the call to PagSeguro is done using the e-mail and token of the client. See below an example of the call without the App Model for the Payment API (the lines have been divided to ease reading):

```
curl https://ws.pagseguro.uol.com.br/v2/checkout/ -d\
         "email=suporte@lojamodelo.com.br\
         &token=95112EE828D94278BD394E91C4388F20\
         &currency=BRL∖
         &itemId1=0001
         &itemDescription1=Notebook Prata\
        &itemAmount1=24300.00\
         &itemOuantity1=1\
         &itemWeight1=1000
         &reference=REF1234\
         &senderName=Jose Comprador
         &senderAreaCode=11\
         &senderPhone=56273440
         &senderEmail=comprador@uol.com.br\
         &shippingType=1\
         &shippingAddressStreet=Av. Brig. Faria Lima
         &shippingAddressNumber=1384\
         &shippingAddressComplement=50 andar\
         &shippingAddressDistrict=Jardim Paulistano\
         &shippingAddressPostalCode=01452002\
         &shippingAddressCity=Sao Paulo\
         &shippingAddressState=SP\
         &shippingAddressCountry=BRA"
```

With the use of the App Model, the call to PagSeguro is done using the appld, the appKey and the authorizationCode of the client. See below an example of the same call using the App Model (the lines have been divided to ease reading):

```
curl https://ws.pagseguro.uol.com.br/v2/checkout/ -d\
    "appId=lojamodelo\
    &appKey=CAD9C79F4141DF222401CF940D6F0682\
    &authorizationCode=D8DD848AC9C98D9EE44C5FB3A1E53913\
    &currency=BRL\
    &itemId1=0001\
    &itemDescription1=Notebook Prata\
    &itemAmount1=24300.00\
    &itemQuantity1=1\
    &itemWeight1=1000\
    &reference=REF1234\
    &senderName=Jose Comprador\
    &senderAreaCode=11\
```



```
&senderPhone=56273440\
&senderEmail=comprador@uol.com.br\
&shippingType=1\
&shippingAddressStreet=Av. Brig. Faria Lima\
&shippingAddressNumber=1384\
&shippingAddressComplement=5o andar\
&shippingAddressDistrict=Jardim Paulistano\
&shippingAddressPostalCode=01452002\
&shippingAddressCity=Sao Paulo\
&shippingAddressState=SP\
&shippingAddressCountry=BRA"
```

# **Notification API**

The Notification API is the only API that does not require an authorizationCode. See below an example of a call to this API without the App Model (the lines have been divided to ease reading):

```
https://ws.pagseguro.uol.com.br/v2/transactions/notifications
/9E884542-81B3-4419-9A75-BCC6FB495EF1
?email=suporte@lojamodelo.com.br
&token=95112EE828D94278BD394E91C4388F20
```

By using the app model, simply transfer, instead of the email and token of the client, the appld and appKey of your app as shown below (the lines have been divided to ease reading):

```
https://ws.pagseguro.uol.com.br/v2/transactions/notifications
/9E884542-81B3-4419-9A75-BCC6FB495EF1
?appId=lojamodelo
&appKey=D8DD848AC9C98D9EE44C5FB3A1E53913
```

## **Search API**

See below an example of the call for this <u>Transaction Search API</u> without the App Model (the lines have been divided to ease reading):

```
https://ws.pagseguro.uol.com.br/v2/transactions
/9E884542-81B3-4419-9A75-BCC6FB495EF1
?email=suporte@lojamodelo.com.br
&token=95112EE828D94278BD394E91C4388F20
```

By using the app model, simply transfer, instead of the email and token of the client, the appld, appKey and authorizationCode as shown below (the lines have been divided to ease reading):



https://ws.pagseguro.uol.com.br/v2/transactions
/9E884542-81B3-4419-9A75-BCC6FB495EF1
?appId=lojamodelo
&appKey=D8DD848AC9C98D9EE44C5FB3A1E53913
&authorizationCode=D8DD848AC9C98D9EE44C5FB3A1E53913

The same process can be applied for searches of Transaction Timeline and for the search of Abandoned Transactions.

### **Creation of Subscription**

See below an example of a call to this Subscription API without the App Model (the lines have been divided to ease reading):

curl -k https://ws.pagseguro.uol.com.br/v2/pre-approvals/request -d\ "email=suporte@lojamodelo.com.br\ &token=95112EE828D94278BD394E91C4388F20\ &reference=REF1234\ &redirectURL=http://www.notebookprata.com.br/retorno.php\ &reviewURL=http://www.notebookprata.com.br/revisao.php\ &preApprovalCharge=manual\ &preApprovalName=Seguro contra roubo do Notebook Prata\ &preApprovalDetails=Seguro contra roubo do Notebook Prata.\ &preApprovalAmountPerPayment=100.00\ &preApprovalPeriod=Monthly\ &preApprovalDayOfMonth=28\ &preApprovalMaxPaymentsPerPeriod=1\ &preApprovalMaxAmountPerPeriod=100.00\ &preApprovalInitialDate=2013-09-01T00:00:000-03:00\ &preApprovalFinalDate=2013-12-01T00:00:000-03:00\ &preApprovalMaxTotalAmount=400.00"

With the use of App Model, the call to PagSeguro is done using the appld, appKey and the authorizationCode of the client. See below an example of the same call using the App Model (the lines have been divided to ease reading):

curl -k https://ws.pagseguro.uol.com.br/v2/pre-approvals/request -d\
"appId=lojamodelo\
&appKey=CAD9C79F4141DF222401CF940D6F0682\
&authorizationCode=D8DD848AC9C98D9EE44C5FB3A1E53913\
&reference=REF1234\
&redirectURL=http://www.notebookprata.com.br/retorno.php\
&reviewURL=http://www.notebookprata.com.br/revisao.php\



| &preApprovalCharge=manual\   |  |
|--|--|
| &preApprovalName=Seguro contra roubo do Notebook Prata\                                    |  |
| &preApprovalDetails=Seguro contra roubo do Notebook Prata.                                 |  |
| <pre>&amp;preApprovalAmountPerPayment=100.00\</pre>  |  |
| &preApprovalPeriod=Monthly\  |  |
| &preApprovalDayOfMonth=28\   |  |
| <pre&preapprovalmaxpaymentsperperiod=1\< pre=""></pre&preapprovalmaxpaymentsperperiod=1\<> |  |
| <pre>&amp;preApprovalMaxAmountPerPeriod=100.00\</pre>                                      |  |
| &preApprovalInitialDate=2013-09-01T00:00:000-03:00\  |  |
| &preApprovalFinalDate=2013-12-01T00:00:000-03:00\  |  |
| &preApprovalMaxTotalAmount=400.00"   |  |
|  |  |

Other APIs follow the same process:

# **Revocation of authorization**

Your client may revoke at any time the authorization granted to the app. As such, he/she must access the following link, select the app desired and click on Remove authorization as shown in Image 10.

Link: https://pagseguro.uol.com.br/aplicacao/listarAutorizacoes.jhtml



# **Table of Errors**

See below the table of errors:

| ERROR CODE | DESCRIPTION              |
|------------|--------------------------|
| 12001      | appld is required.       |
| 12002      | appKey is required.      |
| 12003      | permissions is required. |
| 12004      | redirectURL is required. |



| ERROR CODE | DESCRIPTION   |
|------------|---|
| 12005      | appld invalid length: {0}                                 |
| 12006      | appKey invalid length: {0}                                |
| 12007      | reference invalid length: {0}                             |
| 12008      | permissions invalid length: {0}                           |
| 12009      | redirectURL must have the same domain as application URL. |
| 12010      | permissions invalid: {0}                                  |
| 12011      | inactive application: {0}                                 |
| 12012      | redirectURL invalid length: {0}                           |
| 12013      | redirectURL invalid value: {0}                            |
| 50110      | Date must be like yyyy-MM-dd                              |
| 50128      | The telephone does not respect the 8 or 9 digit pattern   |
| 50129      | The telephone area code must have 2 digits                |
| 50130      | The postal code must have 8 digits                        |
| 50132      | The CPF must have 11 digits                               |
| 50133      | The CNPJ must have 14 digits                              |
| 50134      | Seller must be over 18 years old                          |
| 50135      | Partner must be over 18 years old                         |
| 50136      | Invalid e-mail  |
| 50137      | Invalid user type   |
| 50140      | Email too big. Maximum = 60 characters                    |
| 50141      | Name too big. Maximum = 50 characters                     |
| 50142      | Address too big. Maximum = 80 characters                  |
| 50143      | Address Number too big. Maximum = 20 characters           |
| 50144      | Address Complement too big. Maximum = 40 characters       |
| 50145      | Address District too big. Maximum = 60 characters         |



| ERROR CODE | DESCRIPTION                                   |
|------------|---|
| 50146      | Company Name too big. Maximum = 50 characters |
| 50147      | Display Name too big. Maximum = 50 characters |
| 50148      | Website URL too big. Maximum = 256 characters |

