

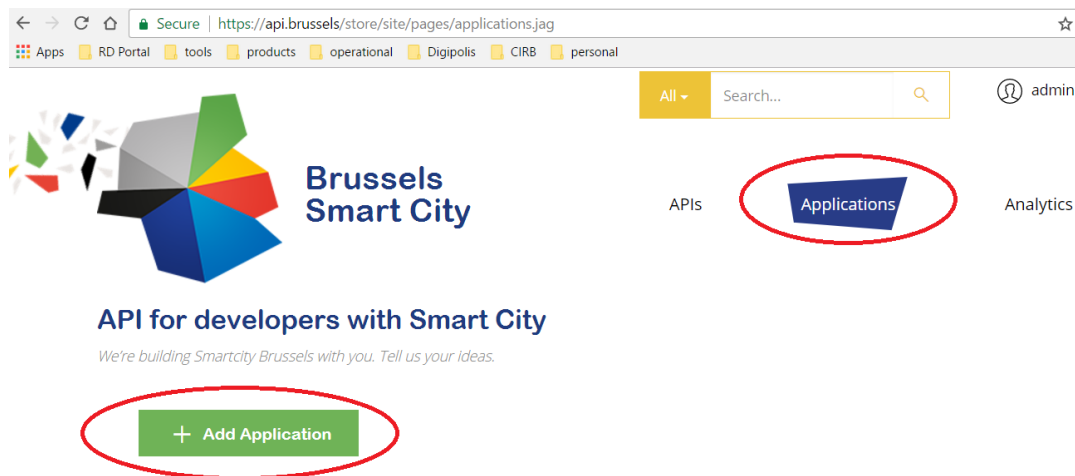
# AGENDA API – HOW-TO

## Table of Contents

Registering an application.....	1
Generating an access token .....	3
Generating an access token using the API Store console.....	3
Generating an access token using the Token web service.....	4
Revoking an access token .....	5
Calling the API service .....	5
Testing API services .....	5
Using API Services.....	6

## Registering an application

To use any API there must be a client application registered.



Fill in a name, description and allowed quota.

# Add Application

An application is a logical collection of APIs. Applications allow you to use a single access token to invoke a collection of AP different SLA levels. The DefaultApplication is pre-created and allows unlimited access by default.

Name\*   
*Characters left: 56*

Per Token Quota  *Allows unlimited requests*  
This feature allows you to assign an API request quota per access token. Allocated quota will be shared among all the subscribed APIs of the application.

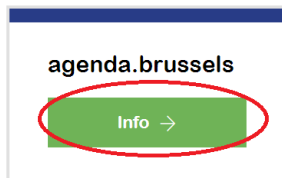
Description

## Create a subscription – permission of the application to use the API



### API for developers with Smart City

We're building Smartcity Brussels with you. Tell us your ideas.



### agenda.brussels

Version 0.0.1

Status: PUBLISHED

Applications

Tiers

- Overview**
- API Console
- Documentation

#### Production and Sandbox Endpoints

Production and Sandbox URLs:

<https://api.brussels:443/api/agenda/0.0.1>

## Generating an access token

It is possible to create a token from the API Store console or using a token web service

## Generating an access token using the API Store console

Creating the token from the API Store console is recommended for development purposes or for creating a permanent “client credentials” (application) token.

The screenshot shows the Brussels Smart City API console interface. At the top left is the logo and the text "Brussels Smart City". To the right, there are two navigation tabs: "APIs" and "Applications", with "Applications" circled in red. Below the navigation is the heading "API for developers with Smart City" and a sub-heading "We're building Smartcity Brussels with you. Tell us your ideas.". A green button labeled "Application List" is visible. The main content area shows the application name "agendaa-test-app" and a horizontal menu with four tabs: "Details", "Production Keys" (circled in red), "Sandbox Keys", and "Subscriptions". Below the menu, the section "Generate a Test Access Token" is displayed. It includes a label "Access Token" and a text input field containing a masked token. Below the token field, a note states: "Above token has a validity period of 3600 seconds. And the token has ( am\_application\_scope default ) scopes." A "Scopes" dropdown menu is shown with "No Scopes Found..". Below that, a "Validity period" section contains a text input field with "3600" and a "Seconds" label. At the bottom of this section, a green "Regenerate" button is circled in red.

### Note:

- The API Manager by default allows accessing a production or sandbox environment. For Agenda API there's only a single (production) environment, so both options point the same data source.

When specifying a **Validity Period** it is possible to generate a **permanent application token** by using value -1.

Be advised – any permanent token is valid until revoked.

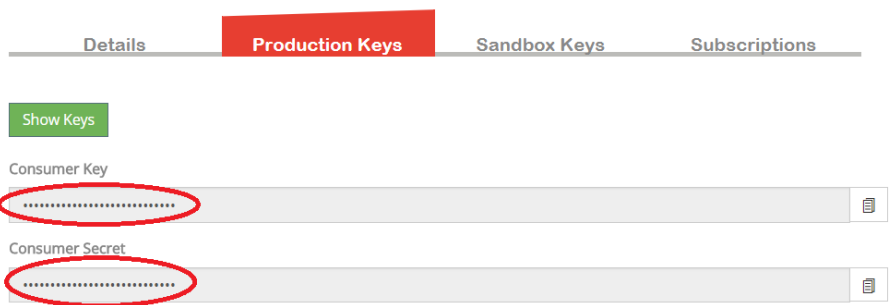
## Generating an access token using the Token web service

The API Manager needs to authenticate and authorize only the client application (not the end users), therefore the **client credentials** OAuth 2.0 profile is used.

```
curl -k -d \
  "grant_type=client_credentials&client_id=consumer-key&client_secret=consumer-secret" \
  https://api.brussels/api/token
```

Where the consumer-key and consumer-secret values are taken from the application settings

agendaa-test-app



## Revoking an access token

An access token can be revoked using the revocation service

```
curl -k -d "token=existing_token" \
  -H "Authorization: Basic Base64(consumer-key:consumer-secret)" \
  https://api.brussels/api/ revoke
```

## Calling the API service

# Testing API services

It is possible to test the API and its usage using the API Store console

The authorized application and its key set (production or sandbox) needs to be selected once an access token is generated.

## agenda.brussels

Version 0.0.1

Status: PUBLISHED

Overview **API Console** Documentation

Try

Using

Set Request Header

**GET** /events/date

**Implementation Notes**  
Return events occurring at a specific date

**Parameters**

Parameter	Value	Description	Parameter Type	Data Type
date	<input type="text" value="2017-06-20"/>	Requested date (yyyy-MM-dd)	query	undefined
page	<input type="text"/>	Page number of the event list	query	integer

**Response Messages**

HTTP Status Code	Reason	Response Model
200		

## Using API Services

Example call:

```
curl -X GET \  
  -H 'Accept: application/xml' \  
  -H 'Authorization: Bearer 4717fa00-cc20-3414-b3b1-bc869b5eb4aa' \  
  'https://api.brussels/api/agenda/v0.0.1/events'
```

Important headers:

- Authorization – an authorization header having value “Bearer <access token>”
- Accept: requested content type of the response, usually **application/xml** or **application/json**