



Coreap APP Webservices API - Guide

Opal Group SAS

Protocolo:

Restful

Metodo de autenticación: OAuth2

<http://oauth.net/2/>

Registrar Aplicación

Para cada aplicación que desee integrar debería crear un usuario y registrar la aplicación en el sistema, esto debe hacerlo en la siguiente URL:

<http://<host>/webservices/auth/applications/>

Your applications

No applications defined. [Click here](#) if you want to register a new one

A continuación se debe presionar la opción: “New Application” o “Click here”, lo que lo redirigirá a un formulario como el siguiente:

Register a new application

Name

Client id

o6IDt6SdRxZcYMqogfPHNobbU

Client secret

PJJiviPpUdiFnvfLCRV6J2SrF2pE

Client type

Authorization grant type

Redirect uris

Go Back

Save

Diligencie el formulario con las siguientes opciones:

1. En la opción "Name" ingrese el nombre de la aplicación a sincronizar (Puede ser cualquier cadena)
2. El sistema por defecto sugerirá un "Client id" y un "Client secret", puede cambiarlos si así lo determina.
3. En la opción "Client type" seleccione la opción "Confidential".
4. En la opción "Authorization grant type" seleccione la opción "Resource owner password-based".

Una vez diligenciado debería tener un registro como el que se muestra en la siguiente imagen, y a continuación guardamos (save):

Register a new application

Name

Client id

Client secret

Client type

Authorization grant type

Redirect uris

[Go Back](#)

[Save](#)

Obtener o refrescar el Token

Parámetros:

- grant_type = password
- username
- password

Uri:

http://<id>:<secret>@<host>/webservices/auth/token/

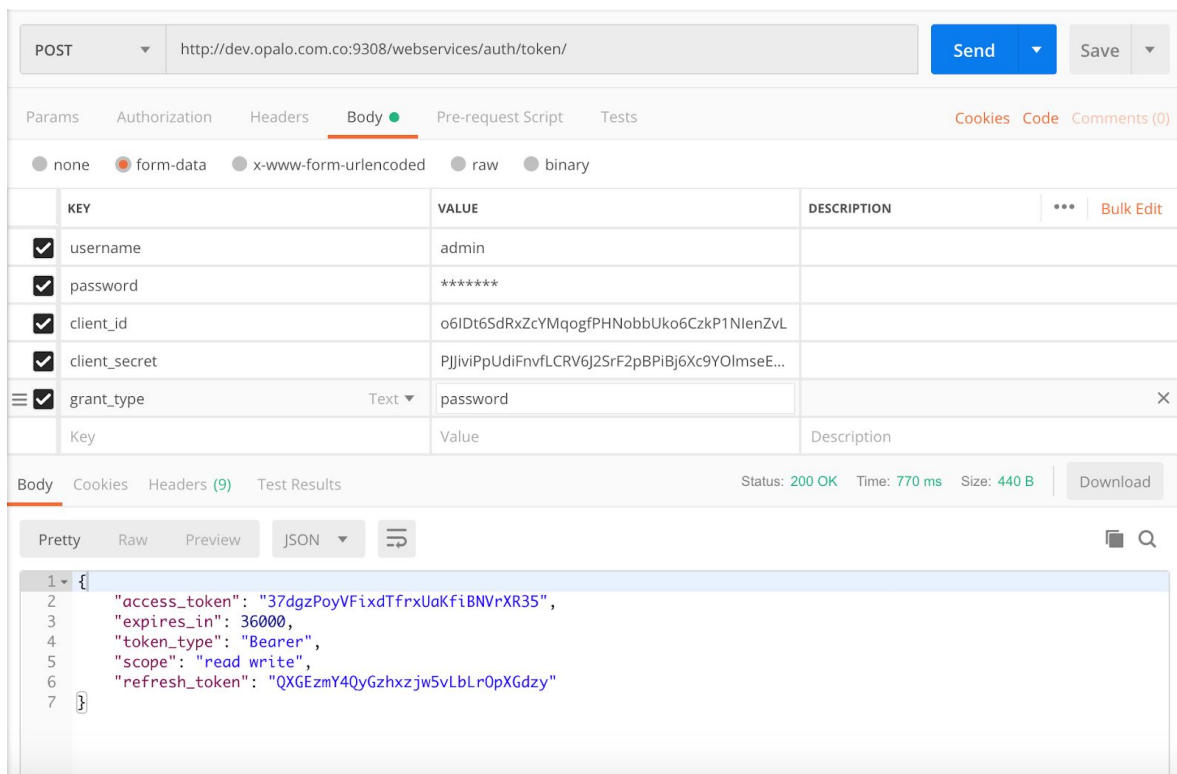
Ejemplo (Consola):

```
curl -X POST -d "grant_type=password&username=admin&password=Demo1234" -u"<id>:<secret>" http://<host>/webservices/auth/token/
```

Parámetros:

- username:
- password:
- client_id
- client_secret:
- grant_type=password

Ejemplo con Postman:



The screenshot shows a Postman interface for a POST request to `http://dev.opalo.com.co:9308/webservices/auth/token/`. The request body is form-encoded with the following parameters:

KEY	VALUE	DESCRIPTION
username	admin	
password	*****	
client_id	o6lDt6SdRxZcYMqogfPHNobbUko6CzkP1NlenZvL	
client_secret	PJjiviPpUdiFnvFLCRV6j2SrF2pBPiBj6Xc9YOlmseE...	
grant_type	password	

The response status is 200 OK, with a time of 770 ms and a size of 440 B. The response body is shown in JSON format:

```
{  "access_token": "37dgzPoyVFixdTfrxUaKfiBNVrXR35",  "expires_in": 36000,  "token_type": "Bearer",  "scope": "read write",  "refresh_token": "QXGEzmY4QyGzhxzjw5vLbLr0pXGdzy"}
```

Las funciones pueden ser llamadas vía navegador a través de la aplicación Web para propósito de pruebas.

Peticiones con Token

En el header de la petición use el parámetro Authorization cuyo valor será "Bearer <token>"

Ejemplo:

```
{ Authorization: "Bearer 37dgzPoyVFixdTfrxUaKfiBNVrXR35" }
```

Funciones Genéricas del Webservices

Cada módulo del CoreApp tiene tres(4) funciones genéricas que implementan el CRUD, dichas funciones son:

- **info:** Lista los campos de un módulo y su definición.
- **index:** Lista los registros de un módulo.
- **process_record:** recupera, actualiza o elimina un registro.
- **create:** Crea un registro.

Al ser un Webservices de tecnología restful este utiliza JSON como objetos de parámetros y respuestas de las funciones, a su vez el llamado de las funciones se hace a través de los métodos HTTP:

- GET
- POST
- PUT
- DELETE

*** Para mayor información acerca de Restful consulte https://en.wikipedia.org/wiki/Representational_state_transfer*

Cada registro en el módulo consultado será representado con un objeto JSON, ejemplo:

```
"id": "7c0f16c634bba21aad9dfbf5a89d50a24c9ba9f7",  
"creation_date": "2015-10-30T12:45:53.216692Z",  
"last_update": "2015-10-30T12:45:53.216724Z",  
"description": "",  
"alive": true,  
"name": "Daniel Cadavid",  
"first_name": "Daniel",  
"last_name": "Cadavid",  
"primary_address_street": "Carrera 80 # 123-67",  
"primary_address_city": "",  
"primary_address_country": "",  
"primary_address_postal_code": "",  
"work_phone": "",  
"mobile": "",  
"email1": "",  
"email2": "",
```

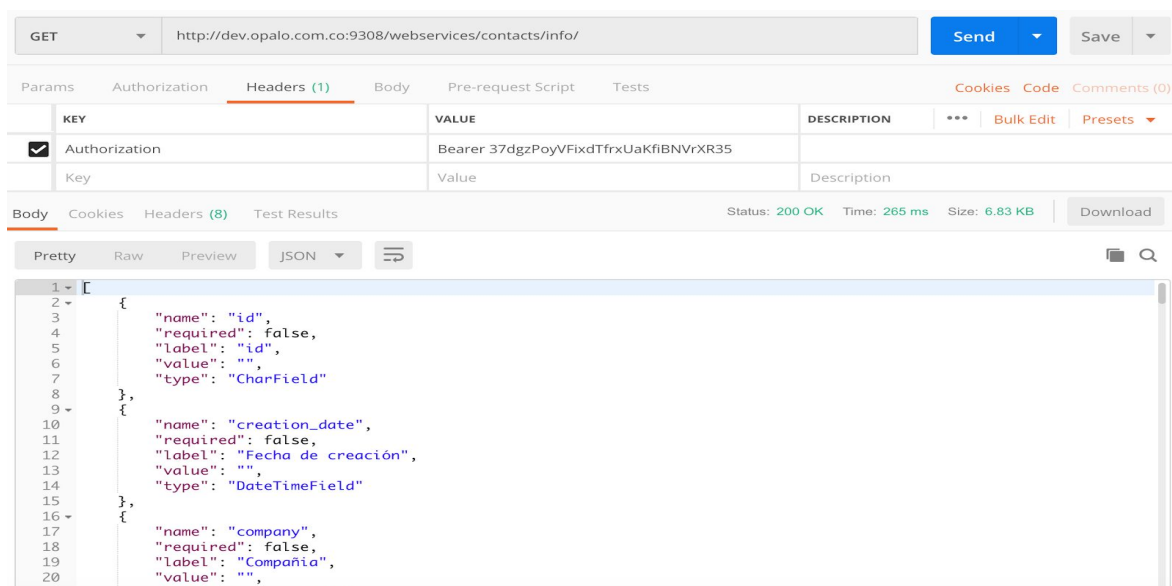
```
"birthdate": "2015-10-30",
"tipo_contacto": "Negociacion",
"cargo": "Jefe de Compras",
"owner": "f3040fa57cb1bf7293c4aa2c3d1f89e0233f7fbb",
"last_edit_user": "f3040fa57cb1bf7293c4aa2c3d1f89e0233f7fbb",
"created_by": "f3040fa57cb1bf7293c4aa2c3d1f89e0233f7fbb",
"account": null,
"clientecorp": "f5823b0fda616e54d5d8d892f1d337d202432510"
```

Los siguientes atributos son automáticos y no deben ser enviados al momento de una actualización o creación:

- "id": Identificador único del registro
- "creation_date": Fecha de creación del registro
- "last_update": Fecha de última actualización del registro
- "alive": Indica si el registro está activo
- "last_edit_user": Identificador del último usuario que modificó el registro
- "created_by": Identificador del usuario que creó el registro

<GET> info

Propósito	Retorna el listado de campos de un módulo con su respectiva definición
Métodos HTTP	GET
URL	http://<host>/webservices/<module>/info/
Parámetros	module: Módulo a consultar
Observaciones	Ninguna.
Retorna	Arreglo de Campos que representan el módulo



GET http://dev.opalo.com.co:9308/webservices/contacts/info/

Authorization: Bearer 37dgzPoyVFixdTfrxUaKfBNVrXR35

Status: 200 OK Time: 265 ms Size: 6.83 KB

```
[
  {
    "name": "id",
    "required": false,
    "label": "id",
    "value": "",
    "type": "CharField"
  },
  {
    "name": "creation_date",
    "required": false,
    "label": "Fecha de creación",
    "value": "",
    "type": "DateTimeField"
  },
  {
    "name": "company",
    "required": false,
    "label": "Compañía",
    "value": ""
  }
]
```

<GET, POST>Index

Propósito	Retorna el listado de registros activos de un módulo, puede incluir filtros
Métodos HTTP	GET, POST (para usar filters)
Parámetros	filters <ul style="list-style-type: none">• Nombre: filters• Valor: Json con filtros donde la llave es el campo y el valor es el valor a buscar• Ejemplo: filters:{"email1": "jhondoe@dominio.com"}
Observaciones	Sí se llama la URL mediante método GET traerá todos los registros del módulo.
Retorna	Arreglo de objetos JSON que representan los registros

Ejemplo:

POST <http://<HOST>/webservices/contacts/index/>

Parámetros

```
filters = {  
  "email1 ": "jhondoe@dominio.com"  
}
```

Retorno:

```
[  
  {  
    "id": "3d735d77e58ecf0fcc22c5cab1a9e8de7dfb2d6",  
    "creation_date": "2015-11-02T15:26:54.874689Z",  
    "last_update": "2015-11-02T18:01:03.461426Z",  
    "description": "",  
    "alive": true,  
    "name": "Julian Does",  
    "first_name": "Julian",  
    "last_name": "Doe",  
    "primary_address_street": "",  
    "primary_address_city": "",  
    "primary_address_country": "",  
    "primary_address_postal_code": "",  
    "work_phone": "4837395",  
    "mobile": "3006519214",  
    "email1": "jhondoes@dominio.com",  
    "email2": "",  
    "birthdate": "2015-11-18",  
    "tipo_contacto": "Aprobador",  
    "cargo": "",  
    "owner": "6ea47b543012b438ee2ace1ea9eeae6fdda8c2cc",  
  }  
]
```

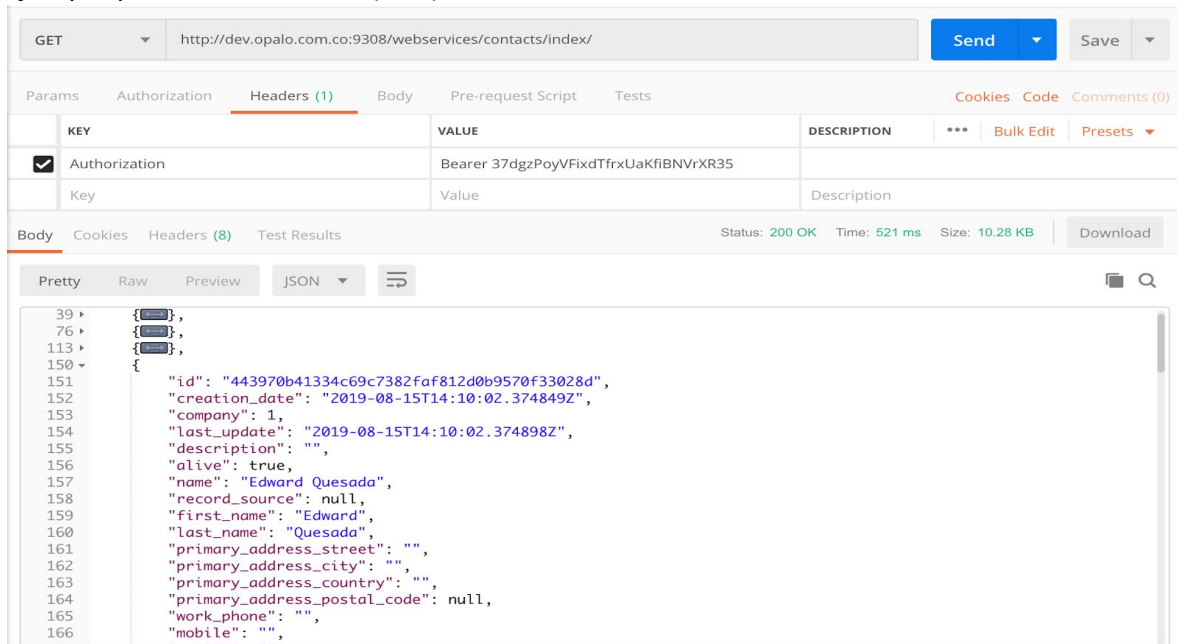


```

    "last_edit_user": "6ea47b543012b438ee2ace1ea9eeae6fdda8c2cc",
    "created_by": "2f5e2d3a1de10f663ee6192dfbde20c9fa0fb13c",
    "account": null,
    "clientecorp": null
  }
}

```

Ejemplo postman sin Filtros (GET):



GET <http://dev.opalo.com.co:9308/webservices/contacts/index/> Send Save

Params Authorization Headers (1) Body Pre-request Script Tests Cookies Code Comments (0)

KEY	VALUE	DESCRIPTION
Authorization	Bearer 37dgzPoyVFixdTfrxUaKfiBNVrXR35	
Key	Value	Description

Body Cookies Headers (8) Test Results Status: 200 OK Time: 521 ms Size: 10.28 KB Download

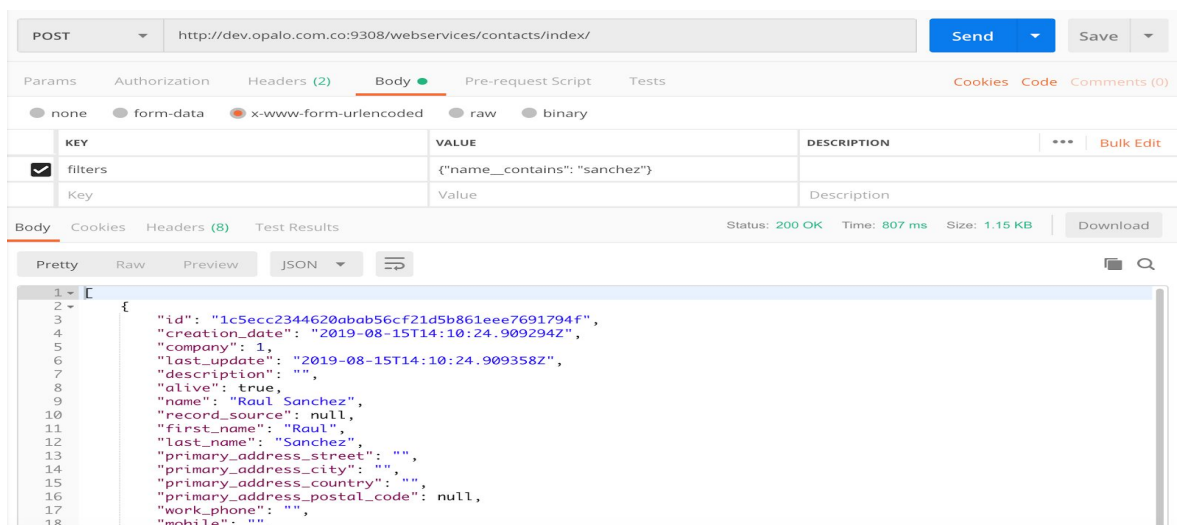
Pretty Raw Preview JSON

```

39 {
76 {
113 {
150 {
151   "id": "443970b41334c69c7382faf812d0b9570f33028d",
152   "creation_date": "2019-08-15T14:10:02.374849Z",
153   "company": 1,
154   "last_update": "2019-08-15T14:10:02.374898Z",
155   "description": "",
156   "alive": true,
157   "name": "Edward Quesada",
158   "record_source": null,
159   "first_name": "Edward",
160   "last_name": "Quesada",
161   "primary_address_street": "",
162   "primary_address_city": "",
163   "primary_address_country": "",
164   "primary_address_postal_code": null,
165   "work_phone": "",
166   "mobile": "",

```

Ejemplo postman con filtros(POST):



POST <http://dev.opalo.com.co:9308/webservices/contacts/index/> Send Save

Params Authorization Headers (2) Body Pre-request Script Tests Cookies Code Comments (0)

none form-data x-www-form-urlencoded raw binary

KEY	VALUE	DESCRIPTION
filters	{"name__contains": "sanchez"}	
Key	Value	Description

Body Cookies Headers (8) Test Results Status: 200 OK Time: 807 ms Size: 1.15 KB Download

Pretty Raw Preview JSON

```

1 {
2   "id": "1c5ecc2344620abab56cf21d5b861eee7691794f",
3   "creation_date": "2019-08-15T14:10:24.909294Z",
4   "company": 1,
5   "last_update": "2019-08-15T14:10:24.909358Z",
6   "description": "",
7   "alive": true,
8   "name": "Raul Sanchez",
9   "record_source": null,
10  "first_name": "Raul",
11  "last_name": "Sanchez",
12  "primary_address_street": "",
13  "primary_address_city": "",
14  "primary_address_country": "",
15  "primary_address_postal_code": null,
16  "work_phone": "",
17  "mobile": "",

```

Process_record

Propósito	Recupera, actualiza o elimina un registro
Métodos HTTP	GET, DELETE, POST
Retorna	Variable

<GET> Process_record

Propósito	Recupera un registro activo
Métodos HTTP	GET
URL	http://<host>/webservices/<module>/process_record/<record_id>
Parámetros	module: Modulo a consultar record_id: Identificador del registro como parámetro compuesto de la URL
Retorna	Objeto JSON

Ejemplo:

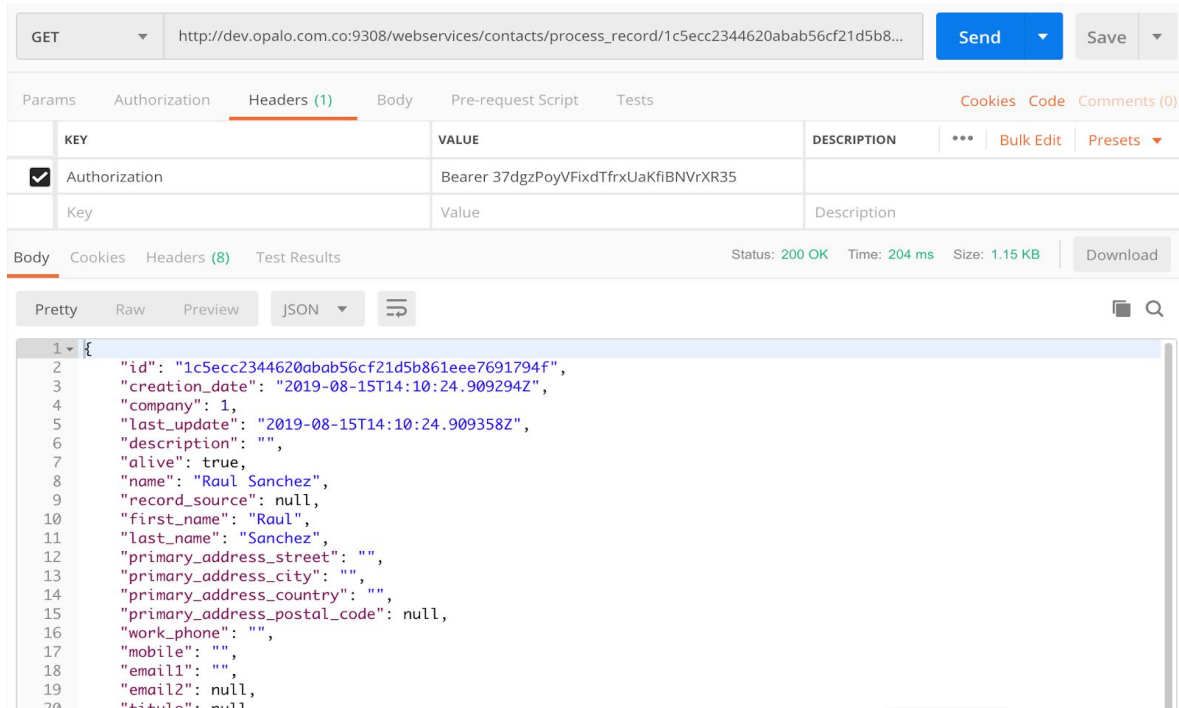
GET

http://<host>/webservices/contacts/process_record/3d735d77e58ecf0fccc22c5cab1a9e8de7df6/

Retorna

```
{
  "id": "3d735d77e58ecf0fccc22c5cab1a9e8de7dfb2d6",
  "creation_date": "2015-11-02T15:26:54.874689Z",
  "last_update": "2015-11-02T18:01:03.461426Z",
  "description": "",
  "alive": true,
  "name": "Julian Alborno",
  "first_name": "Julian",
  "last_name": "Alborno",
  "primary_address_street": "",
  "primary_address_city": "",
  "primary_address_country": "",
  "primary_address_postal_code": "",
  "work_phone": "4837395",
  "mobile": "3006519214",
  "email1": "",
  "email2": "",
  "birthdate": "2015-11-18",
  "tipo_contacto": "Aprobador",
  "cargo": "",
  "owner": "6ea47b543012b438ee2ace1ea9eeae6fdda8c2cc",
  "last_edit_user": "6ea47b543012b438ee2ace1ea9eeae6fdda8c2cc",
  "created_by": "2f5e2d3a1de10f663ee6192dfbde20c9fa0fb13c",
  "account": null,
  "clientecorp": null
}
```

Ejemplo Postman:



GET http://dev.opalo.com.co:9308/webservices/contacts/process_record/1c5ecc2344620abab56cf21d5b8... Send Save

Params Authorization Headers (1) Body Pre-request Script Tests Cookies Code Comments (0)

KEY	VALUE	DESCRIPTION
Authorization	Bearer 37dggzPoyVFixdTfrxUaKfBNVrXR35	
Key	Value	Description

Body Cookies Headers (8) Test Results Status: 200 OK Time: 204 ms Size: 1.15 KB Download

Pretty Raw Preview JSON

```

1 {
2   "id": "1c5ecc2344620abab56cf21d5b861eee7691794f",
3   "creation_date": "2019-08-15T14:10:24.909294Z",
4   "company": 1,
5   "last_update": "2019-08-15T14:10:24.909358Z",
6   "description": "",
7   "alive": true,
8   "name": "Raul Sanchez",
9   "record_source": null,
10  "first_name": "Raul",
11  "last_name": "Sanchez",
12  "primary_address_street": "",
13  "primary_address_city": "",
14  "primary_address_country": "",
15  "primary_address_postal_code": null,
16  "work_phone": "",
17  "mobile": "",
18  "email1": "",
19  "email2": null,
20  "additional": null
  }
  
```

<DELETE> Process_record

Propósito	Borra (Inactiva) un registro activo
URL	http://<host>/webservices/<module>/process_record/<record_id>
Parámetros	module: Modulo a consultar record_id: Identificador del registro como parámetro compuesto de la URL
Métodos HTTP	DELETE
Retorna	HTTP Status

Ejemplo:

DELETE

http://<host>/webservices/contacts/process_record/3d735d77e58ecf0fccc22c5cab1a9e8de7dfb2d6/

Retorna

Vary: Accept

<POST> Process_record

Propósito	Actualiza un registro activo
URL	http://<host>/webservices/<module>/process_record/<record_id>
Parámetros	module: Modulo a consultar record_id: Identificador del registro como parámetro compuesto de la URL post_parameter: Objeto json que representa los campos a modificar
Métodos HTTP	POST
Observaciones	Si existen campos, estos deben ser enviados.
Retorna	Objeto JSON

Ejemplo:

POST

http://<host>/webservices/contacts/process_record/3d735d77e58ecf0fccc22c5cab1a9e8de7dfb2d6/

Parametros

```
{
  "first_name": "Carla Antonia",
  "last_name": "Gomez"
}
```

Retorna

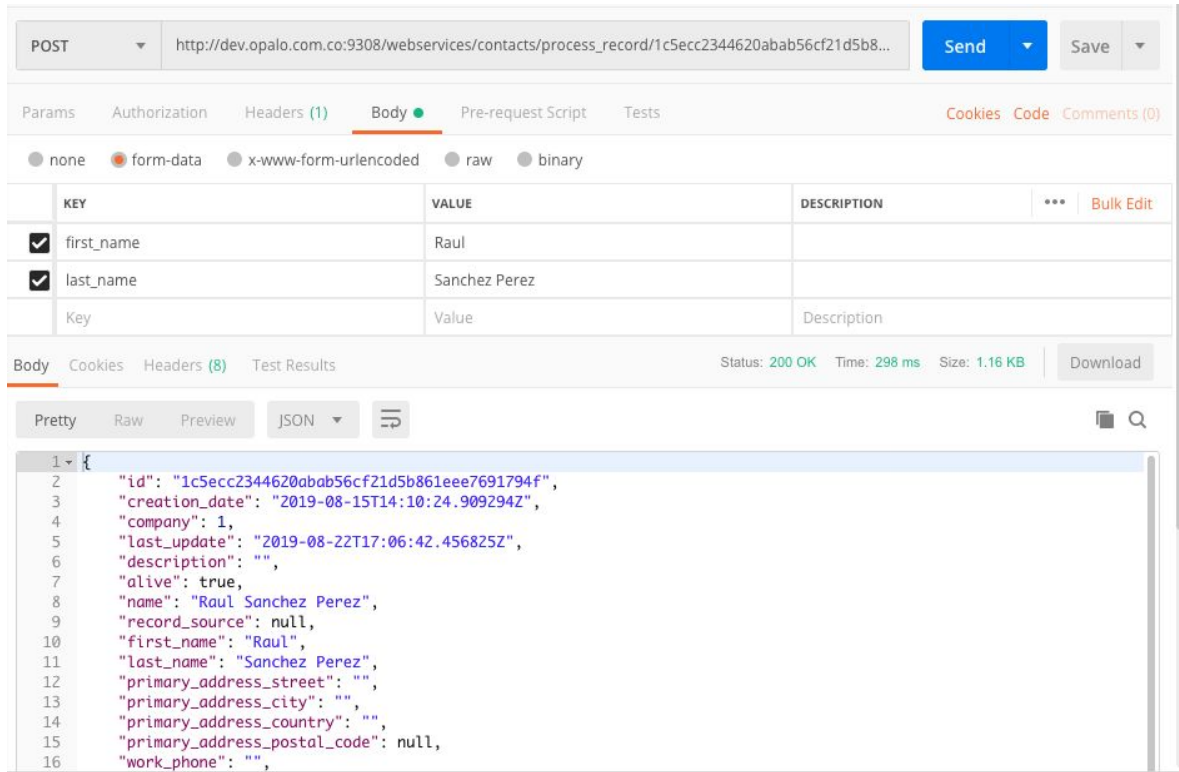
```
{
  "id": "b897c4c98e400a75d6a749ff5668ab43df329093",
  "creation_date": "2015-07-15T21:44:57.790223Z",
  "last_update": "2015-11-03T22:16:08.831870Z",
  "description": "",
  "alive": true,
  "name": "Carla Antonia Gomez",
  "first_name": "Carla Antonia",
  "last_name": "Gomez",
  "primary_address_street": "",
  "primary_address_city": "",
  "primary_address_country": "",
  "primary_address_postal_code": "",
  "work_phone": "24112411",
  "mobile": "3184441232",
  "email1": "",
  "email2": "",
  "birthdate": "2015-07-07",
  "tipo_contacto": "Solicitud de tickets",
  "cargo": "",
  "owner": "6ea47b543012b438ee2ace1ea9eeae6fdda8c2cc",
  "last_edit_user": "2f5e2d3a1de10f663ee6192dfbde20c9fa0fb13c",
}
```

```

"created_by": "6ea47b543012b438ee2ace1ea9eeae6fdda8c2cc",
"account": "9f22b7a1fa2e6af12f9310622484445a76a8d4df",
"clientecorp": null
}

```

Ejemplo Postman:



<POST> create

Propósito	Crea un registro
URL	http://<host>/webservices/<module>/create/
Parámetros	module: Modulo a consultar post_parameter: Objeto json que representa los campos del registro a crear
Métodos HTTP	POST
Observaciones	<ul style="list-style-type: none"> Los campos marcados como Obligatorios ["required": true] En el header se debe enviar la compañía a la que se creará el registro, ejemplo: [Company: 1]
Retorna	Objeto JSON

Ejemplo:

POST http://<host>/webservices/contacts/create/

Parametros

```
{
  "first_name": "Carla Antonia",
  "last_name": "Gomez"
}
```

Retorna

```
{
  "id": "ff97g4c98x400a75d6a749ff5668ab43df32762",
  "creation_date": "2015-07-15T21:44:57.790223Z",
  "last_update": "2015-11-03T22:16:08.831870Z",
  "description": "",
  "alive": true,
  "name": "Carla Antonia Gomez",
  "first_name": "Carla Antonia",
  "last_name": "Gomez",
  "primary_address_street": "",
  "primary_address_city": "",
  "primary_address_country": "",
  "primary_address_postal_code": "",
  "work_phone": "",
  "mobile": "",
  "email1": "",
  "email2": "",
  "birthdate": "",
  "tipo_contacto": "",
  "cargo": "",
  "owner": "6ea47b543012b438ee2ace1ea9eeae6fdda8c2cc",
  "last_edit_user": "6ea47b543012b438ee2ace1ea9eeae6fdda8c2cc",
  "created_by": "6ea47b543012b438ee2ace1ea9eeae6fdda8c2cc",
  "account": "",
  "clientecorp": null
}
```

Ejemplo Postman:

Headers(Cabecera):

POST

http://dev.opalo.com.co:9308/webservices/contacts/create/

Send

Save

Params

Authorization

Headers (2)

Body

Pre-request Script

Tests

Cookies

Code

Comments (0)

	KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input checked="" type="checkbox"/>	Authorization	Bearer 37dgzPoyVFixdTfrxUaKfiBNVrXR35				
<input checked="" type="checkbox"/>	Company	1				
	Key	Value	Description			

Body

Cookies

Headers (8)

Test Results

Status: 200 OK

Time: 271 ms

Size: 1.14 KB

Download

Pretty

Raw

Preview

JSON

```
1 {
2   "id": "4e3888989e5ee1dd023aba96e20dd5f4acd234f8",
3   "creation_date": "2019-08-22T17:09:56.973880Z",
4   "company": 1,
5   "last_update": "2019-08-22T17:09:56.973993Z",
6   "description": "",
7   "alive": true,
8   "name": "Jimmy Alexis Villegas",
9   "record_source": null,
10  "first_name": "Jimmy Alexis",
11  "last_name": "Villegas",
12  "primary_address_street": null,
13  "primary_address_city": null,
14  "primary_address_country": null,
15  "primary_address_postal_code": null,
16  "work_phone": null,
17  "mobile": null,
18  "email": null,
```

Body(Cuerpo):

