

Table of contents (cont.)

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INTERNAL USE

BlueVia Flows REST Interface – neoSDP integration

iError! No se encuentra el origen de la referencia.	1 de 35
9XXXXX-XXX-XXXX	1 of 35
9XXXXX-XXX-XXXX	1 of 35

Table of contents (cont.)

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iError! No se encuentra el origen de la referencia.	2 de 35
9XXXXX-XXX-XXXX	2 of 35
9XXXXX-XXX-XXXX	2 of 35

Table of contents (cont.)

<u>1</u>	<u>DOCUMENT HISTORY</u>
<u>2</u>	<u>DEFINITIONS AND ABBREVIATIONS</u>
<u>2.1</u>	<u>Definitions</u>
<u>2.2</u>	<u>Abbreviations</u>
<u>2.3</u>	<u>References</u>
<u>3</u>	<u>overview</u>
<u>3.1</u>	<u>Base URL</u>
<u>3.2</u>	<u>HTTP guidelines</u>
<u>3.3</u>	<u>Pagination in 'GET' (READ) Operations</u>
<u>3.4</u>	<u>Filtering</u>
<u>3.5</u>	<u>Searches</u>
<u>3.6</u>	<u>Resources</u>
<u>4</u>	<u>APPLICATIONS INTERFACE</u>
<u>4.1</u>	<u>Resource 'Collection of Applications'</u>
<u>4.1.1</u>	<u>getApplication (criteria)</u>
<u>4.1.2</u>	<u>createApplication ()</u>
<u>4.2</u>	<u>Resource 'Application'</u>
<u>4.2.1</u>	<u>getApplication (appId)</u>
<u>4.2.2</u>	<u>updateApplication (appId)</u>
<u>4.2.3</u>	<u>deleteApplication (appId)</u>
<u>4.2.4</u>	<u>resetApplicationCredentials (appId)</u>
<u>4.3</u>	<u>Specific API Configuration</u>

iError! No se encuentra el origen de la referencia.	3 de 35
--	---------

9XXXXX-XXX-XXXX	3 of 35
-----------------	---------

9XXXXX-XXX-XXXX	3 of 35
-----------------	---------

Table of contents (cont.)

A **Complex Types**

A.1 **errorCode**

¡Error! No se encuentra el origen de la referencia.	4 de 35
9XXXXX-XXX-XXXX	4 of 35
9XXXXX-XXX-XXXX	4 of 35

Table of contents (cont.)

1. DOCUMENT HISTORY

Version	Date	Made by	Changes
1	8/8/2012		Initial document

iError! No se encuentra el origen de la referencia.	5 de 35
--	---------

9XXXXX-XXX-XXXX	5 of 35
-----------------	---------

9XXXXX-XXX-XXXX	5 of 35
-----------------	---------

Table of contents (cont.)

2.

¡Error! No se encuentra el origen de la referencia.	6 de 35
9XXXXX-XXX-XXXX	6 of 35
9XXXXX-XXX-XXXX	6 of 35

Table of contents (cont.)

3. DEFINITIONS AND ABBREVIATIONS

<To be filled>

1. Definitions

2. Abbreviations

- **API:** Application Programming Interface
- **FFS:** For Further Study
- **ID:** Identifier
- **IP:** Internet Protocol
- **HTTPS:** HyperText Transfer Protocol Secure
- **JSON:** JavaScript Object Notation
- **MCC:** Mobile Country Code
- **MNC:** Mobile Network Code
- **MSISDN:** Mobile Station International Subscriber Directory Number
- **OB:** Operating Business
- **SIM:** Subscriber Identity Module
- **REST:** Representational State Transfer
- **SMS:** Short Messaging Service
- **URI:** Uniform Resource Identifier
- **URL:** Uniform Resource Locator
- **XML:** eXtended Markup Language

3. References

Format & Conventions : <https://bv-redmine.tid.es/redmine/projects/bluevia/wiki/Formats>

iError! No se encuentra el origen de la referencia.	7 de 35
9XXXXX-XXX-XXXX	7 of 35
9XXXXX-XXX-XXXX	7 of 35

Table of contents (cont.)

iError! No se encuentra el origen de la referencia.	8 de 35
9XXXXX-XXX-XXXX	8 of 35
9XXXXX-XXX-XXXX	8 of 35

Table of contents (cont.)

4. overview

This document provides a definition regarding the interface exposed by BlueVia Flows module towards BlueVia Web Portal related to main actors in neoSDP Service scenario:

- Applications

1. Base URL

The Base URL for this RESTful interface follows this scheme:

`https://{serverRoot}/{apiName}/{version}`

where:

- `{serverRoot}`: It is the path where resource is available. It usually refers to a DNS name.
- `{apiName}`: `bvflows`
- `{version}`: It defines the version of the interface

For simplicity purposes, the following simplification is considered along this Chapter with regards to Base URL naming:

`https://{apiRoot}`

where:

- `{apiRoot}={serverRoot}/bvflows/{version}`

2. HTTP guidelines

As as RESTful interface, CRUD operations are allowed:

- Create: POST http Verb

iError! No se encuentra el origen de la referencia.	9 de 35
9XXXXX-XXX-XXXX	9 of 35
9XXXXX-XXX-XXXX	9 of 35

Table of contents (cont.)

- Read: GET http Verb
- Update: PUT http Verb
- Delete: DELETE http Verb

When an action over a determined resource is not suitable to be modelled as a CRUD operation, it is preferred to define such action as part of resource URL.

Regarding the use of http headers, the following MUST be considered:

HTTP Headers in Requests:

- Authorization: Mandatory. In principle Basic Http authentication would be implemented
- TransactionInfo header with the following data:
 - appid = 10000, where 10000 indicates Mozilla Market

HTTP Headers in Responses:

- Location: Mandatory for POST Responses, when the POST 'action' results in the creation of a new resource
- Other headers are not precluded

3. Pagination in 'GET' (READ) Operations

To ask for specific pagination needs in any GET operation, the following scheme is used:

offset: used in the request to specify the offset of the first result to be Mandatory with respect to the list of results that would be Mandatory if no offset were provided.

limit: used in the request to specify the maximum number of results to return at a time. Value must be a non-negative integer and defaults to 0 if no value is specified. A limit of 0 means that is up to the API server to determine how many results to return by default (some servers may return all results by default; others may return a fixed default number like 20).

For instance, specifying `offset=0&limit=20` will return the first 20 results. A subsequent query of `offset=20&count=20` will return the next 20 results, and so on.

For instance: `GET {serverRoot}/management/{version}/developers?limit=50&offset=50` will return 50 results beginning at 50th element.

iError! No se encuentra el origen de la referencia.	10 de 35
9XXXXX-XXX-XXXX	10 of 35
9XXXXX-XXX-XXXX	10 of 35

Table of contents (cont.)

By **default**, any response with multiple elements will return 25 elements per request, if no limit is defined.

totalResults: only used in the response to indicate the total number of possible results, so the client knows how many pages of results exist.

4. Filtering

Filtering allows to retrieve/update some fields within a block of information.

The format followed to implement such functionality is the use of a Query Parameter named "fields" where the filter values are separated by "," (AND logic applied):

fields=element1,element2,element5

It's resource operation specific to restrict and limit allowed values for filter parameters and its specific usage in requests.

Example: This will return name and address information elements about the resource:

GET path/Contacts/{userID}/{contactID}?fields=name,address

5. Searches

Searches is to receive as response only those results that satisfy the criterion (criterion=value) indicated in the request (E.g. request the call logs for a caller identified by its MSIDN: caller=MSISDN).

Several Search criteria can be indicated. In that case, a logical AND is applied to compose the different criterion:

Criterion1=value1 AND Criterion2=value3

iError! No se encuentra el origen de la referencia.	11 de 35
9XXXXX-XXX-XXXX	11 of 35
9XXXXX-XXX-XXXX	11 of 35

Table of contents (cont.)

Additionally, several values for the same search criterion can be indicated. In that case, the different values can be combined using either AND or OR logical operations, but not both at the same time within the same criterion:

Criterion1= value1 AND value2

Criterion2= value3 OR value4

Hence, the search format is as follows:

(Criterion1=value1 AND/OR value2 ...) AND (Criterion2 = value3 AND/OR value4 ...) ...

Every operation will indicate the possible search criteria, possible values and multiplicity. Values of the search criterion are always coded as strings but the table describes the type of the value to be parsed to string. Multiplicity indicates if a search criterion can have more than one value.

To implement searches, each allowed search criterion is mapped to a query parameter in the Request.

For each search criterion:

- 'AND' is indicated by the appearance of one query parameter with several values, separated by the “,” symbol, in the following way:

criterion1=value1,value2

- 'OR' is indicated by the appearance of one query parameter with several values separated

by the ‘|’ symbol, in the following way:

criterion2=value3|value4

Several search criteria can be indicated separated by ‘&’ simbol (AND logic), in the following way:

criterion1=value1,value2&criterion2=value3|value4

iError! No se encuentra el origen de la referencia.	12 de 35
9XXXXX-XXX-XXXX	12 of 35
9XXXXX-XXX-XXXX	12 of 35

Table of contents (cont.)

It's resource operation specific to restrict and limit allowed search parameters and its specific usage (logic) in requests.

Example:

Return Apps whose name is 'Soccer 2012':

GET {apiRoot}/Apps?name= Soccer%202012%0D%0A

6. Resources

All resources uses JSON as the default format.

iError! No se encuentra el origen de la referencia.	13 de 35
9XXXXX-XXX-XXXX	13 of 35
9XXXXX-XXX-XXXX	13 of 35

Table of contents (cont.)

5. APPLICATIONS INTERFACE

This interface is defined for Management and Provisioning of BlueVia applications.

1. Resource 'Collection of Applications'

This section shows the possible operations over this resource:

1. **getApplication (criteria)**

GET	{apiRoot}/apps{format}	getApplication (criteria)
------------	------------------------	---------------------------

This operation allows retrieving a list of Applications (All, or the ones matching some criteria).

Query Parameter	Mandatory	Description
developerId	no	The developer owner of the application
status	no	The application status. Allowed values: <ul style="list-style-type: none">• 'active'• 'deprecated'
name	no	The name of the application
keyword	no	The reserved keyword for the use of shared shortcodes in App
serviceId	yes	Bluevia Service Id

iError! No se encuentra el origen de la referencia.	14 de 35
--	----------

9XXXXX-XXX-XXXX	14 of 35
-----------------	----------

9XXXXX-XXX-XXXX	14 of 35
-----------------	----------

Table of contents (cont.)

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NOTES:

1.- When querying for an Application name, e.g.: `GET {apiRoot}/apps?name='Soccer'`, this query shall be penalized in terms of efficiency (i.e. processing time), unless the query would be filtered by name as well. Therefore the optimized query would be: `GET {apiRoot}/apps?name='Soccer' &fields=name`

RESPONSE:

Parameter	Mandatory	Type	Description
apps	yes	application type [0..N] (see below)	An array of app's entities.
totalResults	yes	number	Total number of applications matching criteria.

NOTE: In case no matching result is returned, response will be OK but empty and totalResults=0.

Application Entity:

Parameter	Mandatory	Type	Description
-----------	-----------	------	-------------

iError! No se encuentra el origen de la referencia.			15 de 35
--	--	--	----------

9XXXXX-XXX-XXXX			15 of 35
-----------------	--	--	----------

9XXXXX-XXX-XXXX			15 of 35
-----------------	--	--	----------

Table of contents (cont.)

appId	yes	string	Application Identifier generated by SDP. Primary Key in Service Profile.
name	no	string	Name of Application.
description	no	string	Description of Application
icon	no	string	Icon of the Application (BASE64)
supportEmail	no	string	E-mail provided by developer for application support
developerId	yes	string	Developer Identifier in SDP platform
status	no	string	Application Status. Allowed values: - 'active' - 'deprecated'
consumerKey	no	string	oauth_consumer_key
consumerSecret	no	string	oauth_consumer_secret
reverseCertificate	no	string	Server (i.e. App) Certificate for MO scenario security, encoded as base64 string.
appApis	no	complex type [0..N] (see section 5.4)	List of APIs consumed by Application and their underlying configuration. See section 5.4 for details

Example:

REQUEST:

iError! No se encuentra el origen de la referencia.	16 de 35
--	----------

9XXXXX-XXX-XXXX	16 of 35
-----------------	----------

9XXXXX-XXX-XXXX	16 of 35
-----------------	----------

Table of contents (cont.)

GET /

Example:

REQUEST:

```
GET /apps?developerId=000012345 HTTP/1.1
```

RESPONSE:

```
HTTP/1.1 200 OK
```

```
{
  "apps": [
    {
      "appId": "20123",
      "name": "motoGP_simulator",
      "description": "Game_for_motoGP_simulation",
      "icon": "xxWEDEWWEI324479t125c4c5",
      "supportEmail": "motoGP.support@gmail.com",
      "developerId": "12015",
      "status": "active",
      "reverseCertificate": {
        "certificate": "WDJEDGQWY63bf74VCDS65d7ewnf43ygHGF&#amp;/RDF"
      },
      "appAPIs": [
        {
          "apiId": "sms_mo",
          "callback": "https://www.motoGPsim.org",
          "shortCodes": [
            "541294",
            "349345"
          ],
          "keyword": "motoGP",
          "notificationFormat": "XML"
        },
      ],
    }
  ],
}
```

iError! No se encuentra el origen de la referencia.	17 de 35
--	----------

9XXXXX-XXX-XXXX	17 of 35
-----------------	----------

9XXXXX-XXX-XXXX	17 of 35
-----------------	----------

Table of contents (cont.)

```
        "apiId": "payment"
      }
    ],
  },
  {
    "appId": "22345",
    "name": "bluezone",
    "description": "Sending SMS To Friends",
    "icon": "xxWEDEWWEI324479t125c4c7",
    "supportEmail": "bluezone.support@gmail.com",
    "developerId": "12015",
    "status": "active",
    "reverseCertificate": {
      "certificate": "WDJEDGQWY63bf74VCDS65d7ewnf43ygHGFRDF"
    },
    "appAPIs": [
      {
        "apiId": "sms_mt"
      },
      {
        "apiId": "user_context"
      }
    ]
  }
],
"totalResults": 2
}
```

In case of no results matching query, response would be:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 1158
```

```
{
  "apps": [],
  "totalResults": 0
}
```

2. createApplication ()

iError! No se encuentra el origen de la referencia.	18 de 35
--	----------

9XXXXX-XXX-XXXX	18 of 35
-----------------	----------

9XXXXX-XXX-XXXX	18 of 35
-----------------	----------

Table of contents (cont.)

POST	{apiRoot}/apps{format}	createApplication ()
-------------	------------------------	----------------------

This operation allows creating a new Application.

Parameter	Mandatory	Type	Description
name	yes	string	Name of Application.
description	no	string	Description of Application.
icon	no	string	Icon of the Application
supportEmail	no	string	E-mail provided by developer for application support
developerId	yes	string	Developer Identifier in neoSDP Platform
reverseCertificate	no	string	Server (i.e. App) Certificate for MO scenario security. ONLY needed in case of using an MO API (SMS, MMS) and Payment. This certificate is a self-signed one: <ul style="list-style-type: none"> Self-Signed Certificate: In this case the certificate is provisioned, encoded as base64 string. NOTE: BV service also supports CA-signed certificates for Applications, but in this case there is no provisioning as underneath SDP platform (e.g. neoSDP) does the neede verification (it checks 'subjectCN' of certificate matches with notifications URL domain given by developer)
appApis	no	complex type [0..N] (see section 5.4)	List of APIs consumed by Application and their underlying configuration. See section 5.4 for details

iError! No se encuentra el origen de la referencia.	19 de 35
--	----------

9XXXXX-XXX-XXXX	19 of 35
-----------------	----------

9XXXXX-XXX-XXXX	19 of 35
-----------------	----------

Table of contents (cont.)

generateTestToken	no	boolean	Indicates whether a testing token for developer is issued at application creation along with application credentials <ul style="list-style-type: none"> • 'true': token is generated • 'false': token is not generated If not included in request default value for API Server will be 'false'.
-------------------	----	---------	---

RESPONSE:

An element of 'application' instance, composed by

Parameter	Mandatory	Type	Description
appId	yes	string	Application identifier
consumerKey	yes	string	oAuth consumer key
consumerSecret	yes	string	oAuth consumer Secret
testingToken	no	complex type (see below)	oAuth token for developer to test its application. This token is a oAuth v2.0 token

iError! No se encuentra el origen de la referencia.	20 de 35
--	----------

9XXXXX-XXX-XXXX	20 of 35
-----------------	----------

9XXXXX-XXX-XXXX	20 of 35
-----------------	----------

Table of contents (cont.)

testingToken

Parameter	Mandatory	Type	Description
token	yes	string	The token value
macKey	no	string	Mac key applied to mac algorithm for request signing in case of OAuth v2.0 MAC token
macAlgorithm	no	string	Mac algorithm for request signing in case of OAuth v2.0 MAC token

Example:

REQUEST:

iError! No se encuentra el origen de la referencia.	21 de 35
--	----------

9XXXXX-XXX-XXXX	21 of 35
-----------------	----------

9XXXXX-XXX-XXXX	21 of 35
-----------------	----------

Table of contents (cont.)

POST /apps HTTP/1.1
Content-Type: application/json
Content-Length: 577

```
{
  "name": "motoGP_simulator",
  "description": "Game_for_motoGP_simulation",
  "icon": "xxWEDEWWEI324479t125c4c5",
  "supportEmail": "motoGP.support@gmail.com",
  "developerId": "12015",
  "status": "active",
  "reverseCertificate": {
    "certificate": "WDJEDGQWY63bf74VCDS65d7ewnf43ygHGF&#x2F;RDF"
  },
  "appAPIs": [
    {
      "apiId": "sms_mo",
      "callback": "https://www.motoGPsim.org",
      "shortCodes": [
        "541294",
        "349345"
      ],
      "keyword": "motoGP",
      "notificationFormat": "XML"
    },
    {
      "apiId": "payment"
    }
  ],
  "generateTestToken": true
}
```

RESPONSE:

HTTP/1.1 201 Created
Location: <https://{apiRoot}/apps/20123>
Content-Type: application/json
Content-Length: 136

```
{
```

iError! No se encuentra el origen de la referencia.	22 de 35
9XXXXX-XXX-XXXX	22 of 35
9XXXXX-XXX-XXXX	22 of 35

Table of contents (cont.)

```
"appId": "20123",
"consumerkey": "346t4ey45u7y45uhg4hh",
"consumerSecret": "hnmrt6u8346u43w6u",
"testingToken": {
  "token": "f3urty435gh438g2h45"
}
}
```

iError! No se encuentra el origen de la referencia.	23 de 35
9XXXXX-XXX-XXXX	23 of 35
9XXXXX-XXX-XXXX	23 of 35

Table of contents (cont.)

2. Resource 'Application'

This section shows the possible operations over this resource:

1. **getApplication (appId)**

{appId}: App's Identifier within the service (i.e. primary key in DD.BB).

GET	{apiRoot}/apps/{appId}{format}	getApplication (appId)
------------	--------------------------------	------------------------

This operation allows retrieving an application's profile.

Query Parameter	Mandatory	Description
developerId	no	The developer owner of the application
status	no	The application status. Allowed values: <ul style="list-style-type: none"> • 'active' 'deprecated'
name	no	The name of the application
keyword	no	The reserved keyword for the use of shared shortcodes in App

iError! No se encuentra el origen de la referencia.	24 de 35
--	----------

9XXXXX-XXX-XXXX	24 of 35
-----------------	----------

9XXXXX-XXX-XXXX	24 of 35
-----------------	----------

Table of contents (cont.)

RESPONSE:

An instance of 'Application' composed by:

Application Entity:

Parameter	Mandatory	Type	Description
appId	yes	string	Application Identifier generated by SDP. Primary Key in Service Profile.
name	no	string	Name of Application and language.
description	no	string	Description of Application
icon	no	string	Icon of the Application (BASE 64)
supportEmail	no	string	E-mail provided by developer for application support
developerId	yes	string	Developer Identifier in SDP platform
status	no	string	Application Status. Allowed values: - 'active' - 'deprecated'
consumerKey	no	string	oauth_consumer_key
consumerSecret	no	string	oauth_consumer_secret
reverseCertificate	no	string	Server (i.e. App) Certificate for MO scenario security, encoded as base64 string.
appApis	no	complex type [0..N] (see section 5.4)	List of APIs consumed by Application and their underlying configuration. See section 5.4 for details
testingToken	no	complex type (see section 5.1.2)	oAuth token for developer to test its application. This token is a oAuth v2.0 token

iError! No se encuentra el origen de la referencia.	25 de 35
--	----------

9XXXXX-XXX-XXXX	25 of 35
-----------------	----------

9XXXXX-XXX-XXXX	25 of 35
-----------------	----------

Table of contents (cont.)

Example

REQUEST:

```
GET /apps/22345 HTTP/1.1
```

RESPONSE:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 797
```

```
{
  "appId": "22345",
  "name": "bluezone",
  "description": "Sending SMS To Friends",
  "icon": "xxWEDEWWEI324479t125c4c7",
  "supportEmail": "bluezone.support@gmail.com",
  "developerId": "12015",
  "status": "active",
  "reverseCertificate": {
    "certificate": "WDJEDGQWY63bf74VCDS65d7ewnf43ygHGFRDF"
  },
  "appAPIs": [
    {
      "apiId": "sms_mt"
    },
    {
      "apiId": "user_context"
    }
  ]
}
```

iError! No se encuentra el origen de la referencia.	26 de 35
--	----------

9XXXXX-XXX-XXXX	26 of 35
-----------------	----------

9XXXXX-XXX-XXXX	26 of 35
-----------------	----------

Table of contents (cont.)

```
}1
}
```

2. **updateApplication (appId)**

{appId}: App's Identifier within the service (i.e. primary key in DD.BB).

POST	{apiRoot}/apps/{appId}{format}	updateApplication ()
-------------	--------------------------------	----------------------

This operation allows partial updates of an application's profile. Only elements to be updated needs to be included.

Parameter	Mandatory	Type	Description
name	no	string	Name of Application and language.
description	no	string	Description of Application.
icon	no	string	Icon of the Application (BASE 64)
supportEmail	no	string	E-mail provided by developer for application support.
reverseCertificate	no	string	Server (i.e. App) Certificate for MO scenario security. ONLY needed in case of using an MO API (SMS, MMS) and Payment. This certificate is a self-signed one: <ul style="list-style-type: none"> ● Self-Signed Certificate: In this case the certificate is provisioned, encoded as base64 string. NOTE: BV service also supports CA-signed certificates for Applications, but in this case there is no provisioning as underneath SDP platform (e.g. neoSDP) does the neede verification (it checks 'subjectCN' of certificate matches with notifications URL domain given by developer)

iError! No se encuentra el origen de la referencia.	27 de 35
--	----------

9XXXXX-XXX-XXXX	27 of 35
-----------------	----------

9XXXXX-XXX-XXXX	27 of 35
-----------------	----------

Table of contents (cont.)

appApis	no	complex type [0..N] (see section 5.4)	List of APIs consumed by Application and their underlying configuration. See section 5.4 for details
---------	----	---	--

Example

REQUEST:

iError! No se encuentra el origen de la referencia.	28 de 35
--	----------

9XXXXX-XXX-XXXX	28 of 35
-----------------	----------

9XXXXX-XXX-XXXX	28 of 35
-----------------	----------

Table of contents (cont.)

POST /apps/22345 HTTP/1.1
 Content-Type: application/json
 Content-Length: 632

```
{
  "name": "motoGP_simulator",
  "description": "Game_for_motoGP_simulation",
  "icon": "xxWEDEWWEI324479t125c4c5",
  "supportEmail": "motoGP.support@gmail.com",
  "status": "active",
  "reverseCertificate": {
    "certificate": "WDJEDGQWY63bf74VCDS65d7ewnf43ygHGFRDF"
  },
  "appAPIs": [
    {
      "apiId": "sms_mo",
      "callback": "https://www.motoGPsim.org",
      "shortCodes": [
        "541276",
        "349385"
      ],
      "keyword": "motoGP"
    },
    {
      "apiId": "payment"
    }
  ]
}
```

RESPONSE:

HTTP/1.1 200 OK

3. deleteApplication (appId)

{appId}: App's Identifier within the service (i.e. primary key in DD.BB).

DELETE	{apiRoot}/apps/{appId}	deleteApplication (appId)
---------------	------------------------	---------------------------

iError! No se encuentra el origen de la referencia.	29 de 35
--	----------

9XXXXX-XXX-XXXX	29 of 35
-----------------	----------

9XXXXX-XXX-XXXX	29 of 35
-----------------	----------

Table of contents (cont.)

This operation allows deleting an Application profile.

Example:

REQUEST:

`DELETE /apps/123425 HTTP 1.1`

RESPONSE:

`HTTP/1.1 204 No Content`

4. **resetApplicationCredentials (appId)**

{appId}: App's Identifier within the service (i.e. primary key in DD.BB).

POST	{apiRoot}/apps/{appId}/resetcredentials{format}	resetApplicationCredentials (appId)
-------------	---	-------------------------------------

This operation allows resetting Application credentials, generating a new ones.

RESPONSE:

An element of 'application' instance, composed by

Parameter	Mandatory	Type	Description
appId	yes	string	Application Identifier
consumerKey	yes	string	New oauth_consumer_key
consumerSecret	yes	string	New oauth_consumer_secret

iError! No se encuentra el origen de la referencia.	30 de 35
--	----------

9XXXXX-XXX-XXXX	30 of 35
-----------------	----------

9XXXXX-XXX-XXXX	30 of 35
-----------------	----------

Table of contents (cont.)

Example:

REQUEST:

```
POST /apps/123425/resetcredentials HTTP/1.1
```

RESPONSE:

```
HTTP/1.1 200 OK  
Content-Type: application/json  
Content-Length: 135
```

```
{  
  "appId": "2123425",  
  "consumerKey": "34t34674568b7b57b8",  
  "consumerSecret": "235ccdy45756un79"  
}
```

iError! No se encuentra el origen de la referencia.	31 de 35
9XXXXX-XXX-XXXX	31 of 35
9XXXXX-XXX-XXXX	31 of 35

Table of contents (cont.)

3. Specific API Configuration

This section aims at describing the 'appAPIs' array, present in different request/responses over Application resource along previous sections.

Each element of array may be composed as below shown:

Parameter	Mandatory	Type	Description
apiId	yes	string	API Identifier. Allowed values are (enumerated): <ul style="list-style-type: none"> • 'sms_mt' • 'sms_mo' • 'mms_mt' • 'mms_mo' • 'payment' • 'user_context' • 'location'
callback	no	string	URL where messaging notifications will be sent. ONLY Applicable to APIs: <ul style="list-style-type: none"> • 'sms_mo' • 'mms_mo'
shortCodes	no	string [0..N]	List of shortcodes assigned to the Application. The shortcode must include the country code. ONLY applicable to APIs (MUST): <ul style="list-style-type: none"> • 'sms_mo' • 'mms_mo'
keyword	no	string	A keyword assigned to the Application, needed for SDP working (routing) when shortCode is shared within OB. ONLY applicable to APIs: <ul style="list-style-type: none"> • 'sms_mo' • 'mms_mo'

iError! No se encuentra el origen de la referencia.	32 de 35
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9XXXXX-XXX-XXXX	32 of 35
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9XXXXX-XXX-XXXX	32 of 35
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Table of contents (cont.)

notificationFormat	no	string	Format of the notification: so far valid values are JSON or XML. Default (if not included) is JSON. This parameter can only appear if callback is included
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iError! No se encuentra el origen de la referencia.	33 de 35
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9XXXXX-XXX-XXXX	33 of 35
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9XXXXX-XXX-XXXX	33 of 35
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Table of contents (cont.)

NOTE: This element is extensible and may be enhanced based on new/current APIs needs.

iError! No se encuentra el origen de la referencia.	34 de 35
9XXXXX-XXX-XXXX	34 of 35
9XXXXX-XXX-XXXX	34 of 35

Table of contents (cont.)

A. Complex Types

1. errorCode

Parameter	Mandatory	Type	Description
responseCode	Yes	string	Response Code Value
Description	Yes	string	Description of error Code

¡Error! No se encuentra el origen de la referencia.	35 de 35
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9XXXXX-XXX-XXXX	35 of 35
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9XXXXX-XXX-XXXX	35 of 35
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