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PARKINGS AND POIS INFORMATION MOBILE PORTAL

*SPECIFICATIONS FOR PARKING SERVICES PUBLIC PLATFORM FROM
E.M.T.'S INFORMATION SYSTEMS*

Contents

Contents	2
INTRODUCTION	3
INFORMATION SERVICES DESCRIPTION	4
Scheme declaration for authentication input	5
emtAcceso	5
Declaration for public methods.....	7
iconDescription	7
detailParking	9
detailPOI	17
infoParkingPoi	23
listFeatures.....	30
listParking.....	33
listStreetPoisParking.....	36
listTypesPois	40
CALLING EXAMPLES.....	43
iconDescription	43
detailParking.....	43
detailPOI	44
infoParkingPoi	44
listFeatures.....	47
listParking.....	48
listStreetPoisParking.....	48
listTypesPois	49

	 The logo for EMT Madrid, featuring a blue square with a white crown and shield on the left, followed by the text '¡MADRID!' in white on a blue background, and 'EMT' in large blue letters to the right.
	Fecha 19-01-2015


INTRODUCTION.

The present document defines EMT's service layer specifications oriented to parking information services for Client platforms. Actual content, offers a Web Services set, with integration methods pretending to meet the needs from services platforms needing to integrate with our information services.

The system is made up of a set of structures, segmented by the finality or type of the information to be supplied. It resides on a server platform, accessible from a public web site, which publishes the services needed for retrieving data about Madrid public parkings' structure and occupation.

At present, services are published at the following URL:

<https://servicios.emtmadrid.es:8443/InfoParking/InfoParking.svc>

	
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INFORMATION SERVICES DESCRIPTION


Below are defined the SOA services for retrieving parking information.

AUTHENTICATION RULES

In every access to the system, authentication is required as rule and requirement for every platform or device establishing a connection.

The authentication process contains the following rules:

1. Clients must have been registered in EMT's authorization system.
2. Clients must have a code and passkey for every connection, which allows them to access the system.
3. Clients must be authorized for the data request's date, i.e., the date of the connection must be within the period of validity of the passkey.
4. Clients must be authorized to use the required Web Service.

	
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Scheme declaration for authentication input

The following input values will always be included amongst the parameters of every service.

AccessService

This method is implemented within every EMT's Web Service, so it is not necessary to invoke it directly.

emtAcceso

DECLARATION FOR INPUT PARAMETERS

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <emtAcceso xmlns="http://tempuri.org/">
      <IdCliente>int</IdCliente>
      <PassKey>string</PassKey>
    </emtAcceso>
  </soap:Body>
</soap:Envelope>
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length
```


DECLARATION FOR OUTPUT PARAMETERS

```
Content-Type: application/x-www-form-urlencoded
Content-Length: length
```

```
IdCliente=string&PassKey=string
```

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length
```

```
<?xml version="1.0" encoding="utf-8"?>
<cReturn xmlns="http://tempuri.org/">
  <ReturnCode>string</ReturnCode>
  <Description>string</Description>
</cReturn>
```

	
	Fecha 19-01-2015

RESPONSE EXAMPLE

```
<?xml version="1.0" encoding="utf-8" ?>
```

```
<cReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://tempuri.org/">
```

```
<ReturnCode>0</ReturnCode>
```

```
<Description>El cliente está AUTORIZADO</Description>
```

```
</cReturn>
```

Codes returned by the server during authentication

- (0) PassKey OK and authorized
- (1) No PassKey necessary
- (2) PassKey different from the current Passkey
- (3) PassKey expired
- (4) Client unauthorized
- (5) Client deactivated
- (6) Client locked
- (9) Attemp to authenticate failed

Declaration for public methods

Infoparking

iconDescription

This method returns a list of every element (parking features, POI categories,...) having an associated icon, with its name, description (if there is one), group and public URL for the icon that represents it.

Depending on its availability, some values as name and description, will be returned in the selected language, English or Spanish (in that preference order).

DECLARATION FOR INPUT PARAMETERS

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetDescriptionIcon>
      <!--Optional:-->
      <tem:idClient>string</tem:idClient>
      <!--Optional:-->
      <tem:passkey>string</tem:passkey>
      <!--Optional:-->
      <tem:language>string</tem:language>
    </tem:GetDescriptionIcon>
  </soapenv:Body>
</soapenv:Envelope>
```

DESCRIPTION FOR INPUT PARAMETERS


idClient: Required. Authorized client code, supplied by EMT.

passKey: Required. Passkey associated to the client, supplied by EMT.

language: Required. Two character code representing the selected language ('ES', 'EN',...).

DECLARATION FOR OUTPUT PARAMETERS

It returns a XML/JSON structure with every existing icon's attributes.

	
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XML response example:

```

<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetDescriptionIconResponse xmlns="http://tempuri.org/">
      <GetDescriptionIconResult
xmlns:a="http://schemas.datacontract.org/2004/07/InfoParking"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:code>0</a:code>
        <a:message>OK - Descripción Iconos.</a:message>
        <a:Data>
          <a:iconsDescription>
            <a:classification>Contacto
público</a:classification>
            <a:classificationTranslated>Public
contact</a:classificationTranslated>
            <a:description/>
            <a:iconName>Fax</a:iconName>
<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/icon
os circulares/fax_publico.png</a:urlIcon>
          </a:iconsDescription>
          <a:iconsDescription>
            <a:classification>Contacto
público</a:classification>
            <a:classificationTranslated>Public
contact</a:classificationTranslated>
            <a:description/>
            <a:iconName>Web</a:iconName>
<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/icon
os circulares/web_corporativa.png</a:urlIcon>
          </a:iconsDescription>      ...
        </a:Data>
      </GetDescriptionIconResult>
    </GetDescriptionIconResponse>
  </s:Body>
</s:Envelope>


```

JSON response example:

```

{
  "code":0,
  "message":OK - Descripción Iconos.,
  "data":[{
    "classification":Contacto Publico,
    "classificationTranslated":Public contact,
    "description":,
    "iconName":Fax público,
    "urlIcon":https://servicios.emtmadrid.es:8443/InfoParking/icono
s/Aparcamiento III/fax-circle.png
  }]
}

```


	
	Fecha 19-01-2015

DESCRIPTION FOR OUTPUT PARAMETERS

iconsDescription: Element with the icon's detail.

- classification: *Group to which the icon belongs. Always in Spanish.*
- classificationTranslated: *Group to which the icon belongs. Its language depends on the supplied language.*
- description: *Optional. Describes the meaning of the icon.*
- iconName: *Name of the icon.*
- urlIcon: *Web address for the icon.*

detailParking

This method returns detailed information about a specific parking: Access, schedules, rates, services and occupation.

Depending on its availability, the information will be returned in the selected language, English or Spanish (in that preference order).

Every feature's category is also returned in Spanish, since it will be used as a literal parameter in some other methods.

DECLARATION FOR INPUT PARAMETERS

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/"
xmlns:inf="http://schemas.datacontract.org/2004/07/InfoParking">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetDetailParking>
      <!--Optional:-->
      <tem:idClient>string</tem:idClient>
      <!--Optional:-->
      <tem:passkey>string</tem:passkey>
      <!--Optional:-->
      <tem:parametersDetailParking>
        <!--Optional:-->
        <inf:date>date</inf:date>
        <!--Optional:-->
        <inf:family>string</inf:family>
      </tem:parametersDetailParking>
    </tem:GetDetailParking>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<!--Optional:-->
<inf:id>int</inf:id>
<!--Optional:-->
<inf:language>string</inf:language>
<!--Optional:-->
<inf:publicData>>true</inf:publicData>
</tem:parametersDetailParking>
</tem:GetDetailParking>
</soapenv:Body>
</soapenv:Envelope>
```

DESCRIPTION FOR INPUT PARAMETERS

idClient: Required. Authorized client code, supplied by EMT.

passKey: Required. Passkey associated to the client, supplied by EMT.

date: Required. System date in the following format: yyyy-mm-ddThh:mm:ss

family: Required. Three character code for the parking family (e.g. '001').

Id: Required. Integer parking Id (any parking is identified by a 'family/id' pair).

languaje: Required. Two character code representing the selected language ('ES', 'EN',...).

publicData: Required. Always 'true', indicating that the method is searching for public data.

DECLARATION FOR OUTPUT PARAMETERS


It returns a XML/JSON structure with the detailed information of the selected parking.

XML response example:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetDetailParkingResponse xmlns="http://tempuri.org/">
      <GetDetailParkingResult
xmlns:a="http://schemas.datacontract.org/2004/07/InfoParking"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:code>0</a:code>
        <a:message>OK - Detalle Parking.</a:message>
        <a>Data>
          <a:parkingDetails>
            <a:family>Aparcamiento</a:family>
            <a:familyCode>001</a:familyCode>
            <a:general>
              <a:address>c/ Hiedra, 26</a:address>
            <a:administrativeArea>Madrid</a:administrativeArea>
            <a:areaCode>28036</a:areaCode>
            <a:category>General</a:category>
```

```
<a:categoryCode>001</a:categoryCode>
<a:country>Spain</a:country>
<a:icon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/Iconos
Cuadrado Pico/aparcamientos_vehiculoselectricos2.png</a:icon>
<a:latitude>40.4709976</a:latitude>
<a:longitudo>-3.6800931</a:longitudo>
<a:nickName>Recuerdo</a:nickName>
<a:state>Madrid</a:state>
<a:town i:nil="true"/>
<a:type>Rotacion</a:type>
<a:typeCode>001</a:typeCode>
</a:general>
<a:id>5</a:id>
<a:lstAccess>
<a:access>
<a:address>Calle Hiedra, 26</a:address>
<a:code>001</a:code>
<a:latitude>40.472116</a:latitude>
<a:longitudo>-3.679151</a:longitudo>
<a:name>Vehículo</a:name>
<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/Icon
os Cuadrado Pico/acceso_parking.png</a:urlIcon>
</a:access> </a:lstAccess>
<a:lstFeatures>
<a:feature>
<a:code>001</a:code>
<a:content>91 440 11 63</a:content>
<a:name>Fax público</a:name>
<a:nameField>Contacto público</a:nameField>
<a:nameFieldTranslated>Contacto
público</a:nameFieldTranslated>
<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/icon
os circulares/fax_publico.png</a:urlIcon>
</a:feature>
<a:feature>
<a:code>003</a:code>
<a:content>aparcamientos@madridmovilidad.es</a:content>
<a:name>Email público</a:name>
<a:nameField>Contacto público</a:nameField>
<a:nameFieldTranslated>Contacto
público</a:nameFieldTranslated>
<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/icon
os circulares/email.png</a:urlIcon>
</a:feature> </a:lstFeatures>
<a:lstOccupation>
<a:occupation>
<a:code>001</a:code>
<a:free>810</a:free>
<a:moment>2015-03-26T10:00:00</a:moment>
<a:name>General</a:name>
<a:renewalIndex>2.04</a:renewalIndex>
</a:occupation>
<a:occupation>
<a:code>003</a:code>
<a:free>2</a:free>
<a:moment>2015-03-26T10:00:00</a:moment>
```


```
<a:name>Eléctrica</a:name>
  <a:renewalIndex>2.04</a:renewalIndex>
</a:occupation>
</a:lstOccupation>
<a:lstRates>
  <a:rates>
    <a:description>Desde el minuto 0 al 30: 0,0412
€ cada minuto</a:description>
    <a:minutesStayEnd>30</a:minutesStayEnd>
<a:minutesStayInitiation>0</a:minutesStayInitiation>
    <a:periodPricing>Minutos</a:periodPricing>
    <a:rate>0.0412</a:rate>
    <a:scheduleEnd>23:59</a:scheduleEnd>
    <a:scheduleInitial>00:00</a:scheduleInitial>
  </a:rates>
  <a:rates>
    <a:description>Desde el minuto 31 al 90:
0,0370 € cada minuto</a:description>
    <a:minutesStayEnd>90</a:minutesStayEnd>
<a:minutesStayInitiation>31</a:minutesStayInitiation>
    <a:periodPricing>Minutos</a:periodPricing>
    <a:rate>0.0370</a:rate>
    <a:scheduleEnd>23:59</a:scheduleEnd>
    <a:scheduleInitial>00:00</a:scheduleInitial>
  </a:rates>
  <a:rates>
    <a:description>Desde el minuto 91 al 660:
0,0494 € cada minuto</a:description>
    <a:minutesStayEnd>660</a:minutesStayEnd>
<a:minutesStayInitiation>91</a:minutesStayInitiation>
    <a:periodPricing>Minutos</a:periodPricing>
    <a:rate>0.0494</a:rate>
    <a:scheduleEnd>23:59</a:scheduleEnd>
    <a:scheduleInitial>00:00</a:scheduleInitial>
  </a:rates>
  <a:rates>
    <a:description>Desde el minuto 661 hasta
máximo 24 horas: 31,60 €</a:description>
    <a:minutesStayEnd>1440</a:minutesStayEnd>
<a:minutesStayInitiation>661</a:minutesStayInitiation>
    <a:periodPricing>Máximo</a:periodPricing>
    <a:rate>31.6000</a:rate>
    <a:scheduleEnd>23:59</a:scheduleEnd>
    <a:scheduleInitial>00:00</a:scheduleInitial>
  </a:rates>
</a:lstRates>
<a:name>Nuestra Señora del Recuerdo</a:name>
<a:schedule>24 horas, 365 días al año.</a:schedule>
</a:parkingDetails>
</a:Data>
</GetDetailParkingResult>
</GetDetailParkingResponse>
</s:Body>
</s:Envelope>
```

	
	Fecha 19-01-2015

JSON response example:

```
{
  "code":0,
  "message":OK - Detalle Parking.,
  "data":[{"family":Aparcamiento,
    "familyCode":001,
    "general":[{"address":Calle Hiedra, 26,
      "administrativeArea":Madrid,
      "areaCode":28036,
      "category":General,
      "categoryCode":001,
      "country":Spain,
      "icon":https://servicios.emtmadrid.es:8443/InfoParking/iconos/Aparcamiento I/aparcamiento-e-libre-pointer.png,
      "latitude":40.4709976,
      "longitude":-3.6800931,
      "nickName":Recuerdo,
      "state":Madrid,
      "town":,
      "type":Rotacion,
      "typeCode":001
    }],
    "id":5,
    "lstAccess":[{"access":[{"address":Calle Hiedra, 26,
      "code":001,
      "latitude":40.472116,
      "longitude":-3.679151,
      "name":Vehículo,
      "urlIcon":https://servicios.emtmadrid.es:8443/InfoParking/iconos/Aparcamiento III/entrada-pointer.png,
    }],
    "access":[{"address":Calle Hiedra, 26,
      "code":001,
      "latitude":40.472120,
      "longitude":-3.679151,
      "name":PMR,
      "urlIcon":https://servicios.emtmadrid.es:8443/InfoParking/iconos/Aparcamiento III/discapacitados-pointer.png,
    }],
    "lstFeatures":[{"feature":[{"code":001,
      "content":91 440 11 63,
      "name":Fax público,
      "nameField":Contacto público,
      "nameFieldTranslated":Contacto público,
      "urlIcon":https://servicios.emtmadrid.es:8443/InfoParking/iconos/Aparcamiento III/fax-circle.png,
```

```
    }],  
    "feature":[{  
      "code":003,  
      "content":aparcamientos@madridmovilidad.es,  
      "name":Email público,  
      "nameField":Contacto público,  
      "nameFieldTranslated":Contacto público,  
      "urlIcon":https://servicios.emtmadrid.es:8443/InfoParking/iconos/Aparc  
amiento III/email-circle.png,  
    }],  
  }],  
  "lstOccupation":[{  
    "occupation":[{  
      "code":001,  
      "free":810,  
      "moment":2015-03-17T10:00:00,  
      "name":General,  
      "renewalIndex":2.04,  
    }],  
    "occupation":[{  
      "code":003,  
      "free":2,  
      "moment":2015-03-17T10:00:00,  
      "name":Eléctrica,  
      "renewalIndex":2.04,  
    }],  
  }],  
  "lstRates":[{  
    "rates":[{  
      "description":Desde el minuto 0 al 30:  
      "minutesStayEnd":30,  
      "minutesStayInitiation":0,  
      "periodPricing":Minutos,  
      "rate":0.0412,  
      "scheduleEnd":23:59,  
      "scheduleInitial":00:00,  
    }],  
    "rates":[{  
      "description":Desde el minuto 31 al 90:  
      "minutesStayEnd":90,  
      "minutesStayInitiation":31,  
      "periodPricing":Minutos,  
      "rate":0.0370,  
      "scheduleEnd":23:59,  
      "scheduleInitial":00:00,  
    }],  
  }],  
  "name":Nuestra Señora del Recuerdo,  
  "schedule":24 horas, 365 días al año.  
}]  
}
```

	
	Fecha 19-01-2015

DESCRIPTION FOR OUTPUT PARAMETERS

parkingDetails: Element which contains every detail of a parking.

family: Name of the family to which the parking belongs.

familyCode: Three character code for the parking family (e.g. '001').

General: General data.

- *address: Parking address.*
- *administrativeArea: Administrative area for the parking.*
- *areaCode: Area code for the parking.*
- *category: Parking's category name.*
- *categoryCode: Parking's category code.*
- *country: Country in which the parking is located.*
- *icon: Web address for the icon representing the parking.*
- *latitude: Latitude coordinate in WGS84 format.*
- *longitude: Longitude coordinate in WGS84 format.*
- *nickName: Parking's nickname.*
- *state: State in which the parking is located.*
- *town: Town in which the parking is located.*
- *type: POI type.*
- *typeCode: POI type code.*

id: Parking id (any parking is identified by a 'family/id' pair)..

lstAccess: Parking access list.

access

- *address: Access address.*
- *code: Three character code for the access type.*
- *latitude: Latitude coordinate in WGS84 format.*
- *longitude: Longitude coordinate in WGS84 format.*

- *name*: Access type name.
- *urlIcon*: Web address for the access type icon.

IstFeatures: Parking's features list.

feature

- *code*: Three character code for the feature.
- *content*: Additional information about the feature.
- *name*: Feature name.
- *nameField*: Feature category. Always in Spanish.
- *nameFieldTranslated*: Feature category. Its language depends on the supplied language.
- *urlIcon*: Web address for the feature icon.

IstOccupation: Free parking spots.


occupation

- *code*: Three character code for the parking spot type.
- *free*: Free parking spots amount of the specified type.
- *moment*: Occupation count moment (date and time).
- *name*: Parking spot type name.
- *renewalIndex*: Renewal index for the parking.

IstRates: Parking rates.

rates

- *description*: Rate description.
- *minutesStayEnd*: End of stay minutes.
- *minutesStayInitiation*: Beginning of stay minutes.
- *periodPricing*: Pricing period (minutes, maximum daily,...)
- *rate*: Established fee for the pricing period (in euros).
- *scheduleEnd*: Rate application schedule end.
- *scheduleInitial*: Rate application schedule beginning.

	
	Fecha 19-01-2015

Name: Parking name.

schedule: Parking schedule.

detailPOI

This method returns detailed information for a specific POI (or all of them), like id, family code, standard name, translated name, description, web, schedule, payment services,...

It also returns information about images related to the POI (name, description and URL).


Depending on its availability, translated name, POI description, web, schedule and payment services, will be returned in the selected language, English or Spanish (in that preference order).

DECLARATION FOR INPUT PARAMETERS

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/"
xmlns:inf="http://schemas.datacontract.org/2004/07/InfoParking">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetDetailPOI>
      <!--Optional:-->
      <tem:idClient>string</tem:idClient>
      <!--Optional:-->
      <tem:passkey>string</tem:passkey>
      <!--Optional:-->
      <tem:parametersDetailPOI>
        <!--Optional:-->
        <inf:family>string</inf:family>
        <!--Optional:-->
        <inf:id>int</inf:id>
        <!--Optional:-->
        <inf:language>string</inf:language>
      </tem:parametersDetailPOI>
    </tem:GetDetailPOI>
  </soapenv:Body>
</soapenv:Envelope>


```


	
	Fecha 19-01-2015

```

<a:typeCode>001</a:typeCode>
</a:poiDetailGeneral>
<a:poiDetailImages>
  <a:poiDetailImage>
    <a:description/>
<a:urlImage>http://www.esmadrid.com/estaticos/media_contents/tr_generi
c/c45a0a70-505e-11e3-9c66-
f5cc05a66a41/50586636_23122009141417_adj.jpg</a:urlImage>
  </a:poiDetailImage>
  <a:poiDetailImage>
    <a:description/>
<a:urlImage>http://www.esmadrid.com/estaticos/media_contents/tr_generi
c/c45a0a70-505e-11e3-9c66-
f5cc05a66a41/240563601_23122009141453_adj.jpg</a:urlImage>
  </a:poiDetailImage>
  <a:poiDetailImage>
    <a:description/>
<a:urlImage>http://www.esmadrid.com/estaticos/media_contents/tr_generi
c/c45a0a70-505e-11e3-9c66-
f5cc05a66a41/329612014_23122009141436_adj.jpg</a:urlImage>
  </a:poiDetailImage>
  <a:poiDetailImage>
    <a:description/>
<a:urlImage>http://www.esmadrid.com/estaticos/media_contents/tr_generi
c/c45a0a70-505e-11e3-9c66-
f5cc05a66a41/1086386351_23122009141518_adj.jpg</a:urlImage>
  </a:poiDetailImage>
</a:poiDetailImages>
<a:poiDetailInfo>
  <a:description>Este espacio museográfico propone
un viaje por la historia de la ciudad de Madrid desde la Prehistoria
hasta el establecimiento de la Corte, a través de distintas salas como
la de San Isidro, el Patio Renacentista, el Jardín Arqueobotánico o el
Almacén Visitable.
La exposición permanente del museo recorre, a través de un total de
153 piezas, los orígenes y el desarrollo de la villa de Madrid. La
apertura del Museo ha permitido recuperar la tradición de la visita al
Pozo del Milagro (situado junto al patio) donde, según cuenta la
tradición, San Isidro salvó a su hijo de morir ahogado al hacer subir
las aguas hasta el brocal. En la reconstrucción se ha tratado de
realzar este brocal, elemento original, convirtiéndolo en el punto
central de la torre de la linterna construida en torno a él. También
ha hecho posible presentar las manifestaciones artísticas y las
tradiciones relacionadas con el Santo, en un lugar que, formando un
conjunto con la Capilla de San Isidro en la Iglesia de San Andrés y la
cercana Capilla del Obispo, fue el foco histórico de su
culto.</a:description>
  <a:nameTranslated>Museo de San Isidro. Los
Orígenes de Madrid</a:nameTranslated>
  <a:schedule>Mar-dom y festivos 09.30 - 20.00 h.
San Isidro (15 de mayo) 09.30 - 21.30 h.
Cerrado 1 de enero, 1 de mayo y 25 de diciembre.</a:schedule>
  <a:servicesPayment>Entrada
gratuita.</a:servicesPayment>

```

	
	Fecha 19-01-2015

```

<a:web>http://www.esmadrid.com/informacion-
turistica/museo-de-san-isidro-los-origenes-de-madrid</a:web>
</a:poiDetailInfo>
</a:poiDetail>
</a:Data>
</GetDetailPOIResult>
</GetDetailPOIResponse>
</s:Body>
</s:Envelope>

```

JSON response example:

```

{
  "code":0,
  "message": OK - Detalle POI.,
  "data":[{
    "family":Turismo,
    "familyCode":002,
    "id":53,
    "name": Museo de San Isidro. Los Orígenes de Madrid,
    "poiDetailGeneral":[{
      "address":Plaza San Andrés 2,
      "administrativeArea":,
      "areaCode":28005,
      "category":Instalaciones culturales,
      "categoryCode":032,
      "country":Spain,
      "email":museosanisidro@madrid.es,
      "fax":(+34) 91 354 17 19,
      "icon":https://servicios.emtmadrid.es:8443/InfoParking/iconos/POIs/cultura-pointer.png,
      "latitude":40.4120489,
      "longitude":-3.7107603,
      "state":Madrid,
      "telephone":(+34) 91 366 74 15,
      "town":,
      "type":Información turística,
      "typeCode":001,
    }],
    "poiDetailImages":[{
      "poiDetailImage":[{
        "description":,
        "urlImage":
http://www.esmadrid.com/estaticos/media_contents/tr_generic/c45a0a70-505e-11e3-9c66-f5cc05a66a41/50586636_23122009141417_adj.jpg
      }],
      "poiDetailImage":[{
        "description":,
        "urlImage":
http://www.esmadrid.com/estaticos/media_contents/tr_generic/c45a0a70-505e-11e3-9c66-f5cc05a66a41/240563601_23122009141453_adj.jpg
      }],
      "poiDetailImage":[{

```

```

        "description":,
        "urlImage":
http://www.esmadrid.com/estaticos/media_contents/tr_generic/c45a0a70-
505e-11e3-9c66-f5cc05a66a41/329612014_23122009141436_adj.jpg
    }],
    "poiDetailInfo":[{
        "description": Este espacio museográfico
propone un viaje por la historia de la ciudad de Madrid desde la
Prehistoria hasta el establecimiento de la Corte, a través de
distintas salas como la de San Isidro, el Patio Renacentista, el
Jardín Arqueobotánico o el Almacén Visitable.
La exposición permanente del museo recorre, a través de un total de
153 piezas, los orígenes y el desarrollo de la villa de Madrid. La
apertura del Museo ha permitido recuperar la tradición de la visita al
Pozo del Milagro (situado junto al patio) donde, según cuenta la
tradición, San Isidro salvó a su hijo de morir ahogado al hacer subir
las aguas hasta el brocal. En la reconstrucción se ha tratado de
realzar este brocal, elemento original, convirtiéndolo en el punto
central de la torre de la linterna construida en torno a él. También
ha hecho posible presentar las manifestaciones artísticas y las
tradiciones relacionadas con el Santo, en un lugar que, formando un
conjunto con la Capilla de San Isidro en la Iglesia de San Andrés y la
cercana Capilla del Obispo, fue el foco histórico de su culto.,
        "nameTranslated":Museo de San Isidro. Los
Orígenes de Madrid,
        "schedule":Mar-dom y festivos 09.30 - 20.00 h.
San Isidro (15 de mayo) 09.30 - 21.30 h.
Cerrado 1 de enero, 1 de mayo y 25 de diciembre.,
        "servicesPayment":Entrada gratuita.,
        "web": http://www.esmadrid.com/informacion-
turistica/museo-de-san-isidro-los-origenes-de-madrid
    }],
}

```

DESCRIPTION FOR OUTPUT PARAMETERS

poiDetail: Element which contains the POI details.

family: Name for the POI family.

familyCode: Three character code for the POI family.

id: POI id (any POI is identified by a 'family/id' pair).

name: POI name (not translated).

poiDetailGeneral: POI general data.

- *address: POI address.*
- *administrativeArea: Administrative area for the POI.*

- *areaCode*: Are acode for the POI.
- *category*: POI's category name.
- *categoryCode*: Three character category code.
- *country*: Country in which the POI is located.
- *email*: E-mail.
- *fax*: Public fax.
- *icon*: Web address for the icon representing the POI.
- *latitude*: Latitude coordinate in WGS84 format.
- *longitude*: Longitude coordinate in WGS84 format.
- *state*: State in which the POI is located.
- *telephone*: Public telephone.
- *town*: Town in which the POI is located.
- *type*: POI type.
- *typeCode*: POI type code.


poiDetailImages: POI images.

poiDetailImage

- *description*: Optional. Image description.
- *urlImage*: Web address for the image.

poiDetailInfo: POI details in the language provided in the call to the method (if available).

- *description*: POI description.
- *nameTranslated*: POI translated name.
- *schedule*: POI schedule.
- *servicesPayment*: Payment services for the POI.
- *web*: POI web (in the selected language if available).

	
	Fecha 19-01-2015

infoParkingPoi

This method returns general information about parkings and POIs, regardless of the language (address, coordinates, codes,...).

It provides a list of parkings and POIs, found within a specified radius from given coordinates (both supplied as parameters). Besides, some other conditions can be established for the returned items, both for POIs (families, types and categories) and parkings (features availability, parking spots types,...).

However, not every filter is required.

If no coordinates are specified, the method will use the coordinates for the center of Madrid (Puerta del Sol).

If no radius is specified, the method will use 5 kilometers by default.


POIs are filtered searching for those in the categories supplied. If no POI category is specified, no POI will be returned.

Parkings are filtered searching for those meeting any feature selected (within categories groups). If no filter is specified, every parking will be returned.

DECLARATION FOR INPUT PARAMETERS

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/"
xmlns:inf="http://schemas.datacontract.org/2004/07/InfoParking"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetInfoParkingPoisForCoordinate>
      <!--Optional:-->
      <tem:idClient>string</tem:idClient>
      <!--Optional:-->
      <tem:passkey>string</tem:passkey>
      <!--Optional:-->
      <tem:parameters>
        <!--Optional:-->
        <inf:TFamilyTTypeTCategory>
          <!--Optional:-->
          <inf:lstFamilyTypeCategory>
            <!--Zero or more repetitions:-->
            <inf:pois>
              <!--Optional:-->
              <inf:poiCategory>
```

```
<!--Optional:-->
<inf:lstCategoryTypes>
  <!--Zero or more repetitions:-->
  <arr:string>string</arr:string>
</inf:lstCategoryTypes>
</inf:poiCategory>
<!--Optional:-->
<inf:poiFamily>string</inf:poiFamily>
<!--Optional:-->
<inf:poiType>string</inf:poiType>
</inf:pois>
</inf:lstFamilyTypeCategory>
</inf:TFamilyTTypeTCategory>
<!--Optional:-->
<inf:coordinate>
  <!--Optional:-->
  <inf:latitude>string</inf:latitude>
  <!--Optional:-->
  <inf:longitude>string</inf:longitude>
</inf:coordinate>
<!--Optional:-->
<inf:dateTimeUse>date</inf:dateTimeUse>
<!--Optional:-->
<inf:language>string</inf:language>
<!--Optional:-->
<inf:minimumPlacesAvailable>
  <!--Optional:-->
  <inf:lstminimumPlacesAvailable>
    <!--Zero or more repetitions:-->
    <arr:string>string</arr:string>
  </inf:lstminimumPlacesAvailable>
</inf:minimumPlacesAvailable>
<!--Optional:-->
<inf:nameFieldCodes>
  <!--Optional:-->
  <inf:lstNameFieldCodes>
    <!--Zero or more repetitions:-->
    <inf:nameFieldParking>
      <!--Optional:-->
      <inf:codes>
        <!--Optional:-->
        <inf:lstCodes>
          <!--Zero or more repetitions:-->
          <arr:string>string</arr:string>
        </inf:lstCodes>
      </inf:codes>
      <!--Optional:-->
      <inf:nameField>string</inf:nameField>
    </inf:nameFieldParking>
  </inf:lstNameFieldCodes>
</inf:nameFieldCodes>
<!--Optional:-->
<inf:radius>string</inf:radius>
</tem:parameters>
</tem:GetInfoParkingPoisForCoordinate>
</soapenv:Body>
```


	
	Fecha 19-01-2015

```
</soapenv:Envelope>
```

DESCRIPTION FOR INPUT PARAMETERS

About input parameters:

POIs:

The groups of POIs to be returned, are determined within the element 'pois':

poiFamily: It contains the POI family code, for instance '002' (Tourism)

poiType: It contains the POI type code for the supplied family, for instance '001' (Tourist information).

poiCategory: It contains the list of category codes to be returned by the method, for the supplied family and type, for instance '031'.

Therefore, a 'pois' element will be needed for every 'family/type' pair.

nameFieldCodes:

Parking features to be filtered, are determined within the element 'nameFieldCodes'.

Every nameFieldParking element is composed by:

nameField: It indicates the group including the feature. This field will always contain the Spanish literal obtained from other methods response (in which the literal name and the translated name are both returned).

codes: It contains the list of feature codes to be returned by the method, for the feature type supplied in this element's nameField.

The possible values of nameField (the group including the feature), are given by the 'nameField' from the 'listFeatures' method, which also returns the group's translated name (nameFieldTranslated), feature's name (name) and feature's code within the group (nameCode).

minimumPlacesAvailable:

This element only makes sense if parking spot types are filtered in nameFieldCodes, in which case is required and must have as many elements as spot types are indicated in nameFieldCodes. Its values will be applied in the same order as the spot types are specified in nameFieldCodes. For every spot type filtered, if no minimum is to be considered, '0' must be provided.

idClient: Required. Authorized client code, supplied by EMT.

passKey: Required. Passkey associated to the client, supplied by EMT.

TFamilyTTypeTCategory

IstFamilyTypeCategory

pois

- *poiCategory*

IstCategoryTypes: POIs category list.

string: Three character code for the POI category, e.g., '031'

More than one category can be filtered.

- *poiFamily: Three character code for the POI family, e.g., '002'*
- *poiType: Three character code for the POI type, e.g., '001'*

coordinate

- *latitude: Latitude coordinate in WGS84 format, e.g., 40.4709976*
- *longitude: Longitude coordinate in WGS84 format, e.g., -3.6800931*

dateTimeUse: Required. System date in the following format: yyyy-mm-ddThh:mm:ss

language: Two character code representing the selected language ('ES', 'EN',...).

minimumPlacesAvailable

IstminimumPlacesAvailable

string: Minimum places available requirement for any parking spot type indicated in nameFieldCodes, e.g., '10, 0'. This element only makes sense if parking spot types are filtered in nameFieldCodes.

nameFieldCodes


IstNameFieldCodes

nameFieldParking

- *codes*

IstCodes

string: Three character code for the selected feature, e.g., '001'

	
	Fecha 19-01-2015

- *nameField: Literal name for the feature group. Always in Spanish, e.g. 'Tipo Plaza'*
radius: Search radius from the point set in 'coordinate'.


DECLARATION FOR OUTPUT PARAMETERS

It returns a XML/JSON structure with the information.

XML response example:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetInfoParkingPoisForCoordinateResponse
xmlns="http://tempuri.org/">
      <GetInfoParkingPoisForCoordinateResult
xmlns:a="http://schemas.datacontract.org/2004/07/InfoParking"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:code>0</a:code>
        <a:message>OK</a:message>
        <a>Data>
          <a:Parking>
            <a:address>c/ Hiedra, 26</a:address>
            <a:administrativeArea>Madrid</a:administrativeArea>
            <a:areaCode>28036</a:areaCode>
            <a:category>General</a:category>
            <a:categoryCode>001</a:categoryCode>
            <a:country>Spain</a:country>
            <a:email i:nil="true"/>
            <a:family>001</a:family>
            <a:familyName>Aparcamiento</a:familyName>
            <a:fax/>
            <a:icon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/Iconos
Cuadrado Pico/aparcamientos_vehiculoselectricos2.png</a:icon>
            <a:id>5</a:id>
            <a:latitude>40.4709976</a:latitude>
            <a:longitudo>-3.6800931</a:longitudo>
            <a:name>Nuestra Señora del Recuerdo</a:name>
            <a:state/>
            <a:telephone/>
            <a:town>Madrid</a:town>
            <a:type>Rotacion</a:type>
            <a:typeCode>001</a:typeCode>
          </a:Parking>
          <a:Parking>
            <a:address>Plaza Vázquez de Mella, s/n</a:address>
            <a:administrativeArea>Madrid</a:administrativeArea>
            <a:areaCode>28004</a:areaCode>
            <a:category>General</a:category>
            <a:categoryCode>001</a:categoryCode>
            <a:country>Spain</a:country>
            <a:email i:nil="true"/>
            <a:family>001</a:family>
```

```
<a:familyName>Aparcamiento</a:familyName>
<a:fax/>
<a:icon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/Iconos
Cuadrado Pico/aparcamientos3.png</a:icon>
  <a:id>11</a:id>
  <a:latitude>40.4209742</a:latitude>
  <a:longitude>-3.6990218</a:longitude>
  <a:name>Vázquez de Mella</a:name>
  <a:state/>
  <a:telephone/>
  <a:town>Madrid</a:town>
  <a:type>Rotacion</a:type>
  <a:typeCode>001</a:typeCode>
</a:Parking>
  ...
  <a:Parking>
    <a:address>Parque Casa de Campo s/n</a:address>
    <a:administrativeArea/>
    <a:areaCode>28011</a:areaCode>
    <a:category>Parques y centros de ocio</a:category>
    <a:categoryCode>031</a:categoryCode>
    <a:country>Spain</a:country>
    <a:email i:nil="true"/>
    <a:family>002</a:family>
    <a:familyName>Turismo</a:familyName>
    <a:fax/>
  <a:icon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/Iconos
Cuadrado Pico/parques_centrosocio.png</a:icon>
    <a:id>119</a:id>
    <a:latitude>40.4094428</a:latitude>
    <a:longitude>-3.7628942</a:longitude>
    <a:name>Zoo Aquarium</a:name>
    <a:state/>
    <a:telephone>(+34) 902 345 014</a:telephone>
    <a:town>Madrid</a:town>
    <a:type>Información turística</a:type>
    <a:typeCode>001</a:typeCode>
  </a:Parking>
  <a:Parking>
    <a:address>Avenida Planetario 16</a:address>
    <a:administrativeArea/>
    <a:areaCode>28045</a:areaCode>
    <a:category>Parques y centros de ocio</a:category>
    <a:categoryCode>031</a:categoryCode>
    <a:country>Spain</a:country>
    <a:email i:nil="true"/>
    <a:family>002</a:family>
    <a:familyName>Turismo</a:familyName>
    <a:fax/>
  <a:icon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/Iconos
Cuadrado Pico/parques_centrosocio.png</a:icon>
    <a:id>121</a:id>
    <a:latitude>40.3908093</a:latitude>
    <a:longitude>-3.6852244</a:longitude>
    <a:name>Planetario</a:name>
    <a:state/>
```

	
	Fecha 19-01-2015

```

<a:telephone>(+34) 91 467 34 61</a:telephone>
<a:town>Madrid</a:town>
<a:type>Información turística</a:type>
<a:typeCode>001</a:typeCode>
  </a:Parking>
</a:Data>
</GetInfoParkingPoisForCoordinateResult>
</GetInfoParkingPoisForCoordinateResponse>
</s:Body>
</s:Envelope>

```

JSON response example:

```

{
  "code": 0,
  "message": "ok",
  "data": [
    {
      "address": "c/ Hiedra, 26",
      "administrativeArea": "Madrid",
      "areaCode": 28036,
      "category": "General",
      "categoryCode": 001,
      "country": "Spain",
      "email": "",
      "family": 001,
      "familyName": "Parking",
      "fax": "",
      "icon": "https://servicios.emtmadrid.es:8443/InfoParking/iconos/Aparcamiento I/aparcamiento-pointer.png",
      "id": 5,
      "latitude": 40,4709976,
      "longitude": -3,6800931,
      "name": "NUESTRA SEÑORA DEL RECUERDO",
      "state": "",
      "telephone": "",
      "town": "Madrid",
      "type": "Rotacion",
      "typeCode": 001
    }
  ]
}

```


DESCRIPTION FOR OUTPUT PARAMETERS

Parking: Element that contains POIs and parkings information.

address: Address for the POI or parking.

administrativeArea: Administrative area for the POI or parking.

areaCode: Area code for the POI or parking.

	
	Fecha 19-01-2015

category: Category name for the POI or parking.

categoryCode: Three character category code for the POI or parking.

country: Country in which it is located.

email: Public e-mail to contact the POI or parking.

family: Three character code for the family (e.g. '001').

familyName: Family name for the POI or parking.

fax: Public fax to contact the POI or parking.

icon: Web address for the icon representing the POI or parking.

id: Id (any POI or parking is identified by a 'family/id' pair).

latitude: Latitude coordinate in WGS84 format.

longitude: Longitude coordinate in WGS84 format.

name: Name for the POI or parking.

state: State in which it is located.

telephone: Public phone to contact the POI or parking.

town: Town in which it is located.

type: Type for the POI or parking.

typeCode: Three character code for the type (e.g. '001').

listFeatures

This method returns a list of active parking features, with name, feature code, feature group and, if available, description and web address for the icon representing it. Every feature will be identified by its nameField and nameCode.

Depending on its availability, name, feature group and description, will be returned in the selected language, English or Spanish (in that preference order).

The feature group is also returned in Spanish, since it will be used as a literal parameter in some other methods.

DECLARATION FOR INPUT PARAMETERS

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/"
xmlns:inf="http://schemas.datacontract.org/2004/07/InfoParking">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetListFeatures>          <!--Optional:-->
    <tem:idClient>string</tem:idClient>
      <!--Optional:-->
      <tem:passkey>string</tem:passkey>
      <!--Optional:-->
      <tem:parametersListFeatures>
        <!--Optional:-->
        <inf:language>string</inf:language>
        <!--Optional:-->
        <inf:publicData>>true</inf:publicData>
      </tem:parametersListFeatures>
    </tem:GetListFeatures>
  </soapenv:Body>
</soapenv:Envelope>
```

DESCRIPTION FOR INPUT PARAMETERS

idClient: Required. Authorized client code, supplied by EMT.

passKey: Required. Passkey associated to the client, supplied by EMT.

language: Required. Two character code representing the selected language ('ES', 'EN',...).


publicData: Required. Always 'true', indicating that the method is searching for public data.

DECLARATION FOR OUTPUT PARAMETERS

It returns a XML/JSON structure with the feature list.

XML response example:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetListFeaturesResponse xmlns="http://tempuri.org/">
      <GetListFeaturesResult
xmlns:a="http://schemas.datacontract.org/2004/07/InfoParking"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:code>0</a:code>
        <a:message>OK - Lista Características.</a:message>
        <a>Data>
          <a:featureType>
```

	
	Fecha 19-01-2015

```

<a:description/>
<a:name>Subscription availability</a:name>
<a:nameCode>001</a:nameCode>
<a:nameField>Servicios adicionales</a:nameField>
<a:nameFieldTranslated>Additional
services</a:nameFieldTranslated>
<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/iconos
circulares/disponible_abonos.png</a:urlIcon>
</a:featureType>
<a:featureType>
<a:description/>
<a:name>Reserve parking</a:name>
<a:nameCode>002</a:nameCode>
<a:nameField>Servicios adicionales</a:nameField>
<a:nameFieldTranslated>Additional
services</a:nameFieldTranslated>
<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/iconos
circulares/reserva_plazas.png</a:urlIcon>
</a:featureType> ... </a:Data>
</GetListFeaturesResult>
</GetListFeaturesResponse>
</s:Body>
</s:Envelope>

```

JSON response example:

```

{
  "code":0,
  "message":OK - Lista Características.,
  "data":[{
    "description":,
    "name":Subscription availability,
    "nameCode":001,
    "nameField":Servicios adicionales,
    "nameFieldTranslated":Additional services,
    "urlIcon":https://servicios.emtmadrid.es:8443/InfoParkingDMZ/ic
onos/Aparcamiento III/abonos-circle.png
  }]
}

```

DESCRIPTION FOR OUTPUT PARAMETERS

featureType: Element which contains every feature's information.


description: *Feature description, if available.*

name: *Feature name.*

nameCode: *Three character code for the feature (e.g. '001').*

nameField: *Group to which the feature belongs. Always in Spanish.*

nameFieldTranslated: *Group to which the feature belongs. Its language depends on the*

	
	Fecha 19-01-2015

supplied language.

urlIcon: Web address for the icon representing the feature, if available.

listParking

This method returns a list of active parkings, with id, family, name, category, type, address and coordinates. Every parking will be identified by its Family and id.

Depending on its availability, type and category will be returned in the selected language, English or Spanish (in that preference order).

DECLARATION FOR INPUT PARAMETERS

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetListParking          <!--Optional:-->
      <tem:idClient>string</tem:idClient>
      <!--Optional:-->
      <tem:passkey>string</tem:passkey>
      <!--Optional:-->
      <tem:language>string</tem:language>
    </tem:GetListParking>
  </soapenv:Body>
</soapenv:Envelope>
```

DESCRIPTION FOR INPUT PARAMETERS

idClient: Required. Authorized client code, supplied by EMT.

passKey: Required. Passkey associated to the client, supplied by EMT.

language: Required. Two character code representing the selected language ('ES', 'EN',...).

DECLARATION FOR OUTPUT PARAMETERS

It returns a XML/JSON structure with the parkings list.

XML response example:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetListParkingResponse xmlns="http://tempuri.org/">
      <GetListParkingResult
xmlns:a="http://schemas.datacontract.org/2004/07/InfoParking"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:code>0</a:code>
        <a:message>OK - Lista Parking.</a:message>
        <a:Data>
          <a:lstParking>
            <a:address>c/ Hiedra, 26</a:address>
            <a:administrativeArea>Madrid</a:administrativeArea>
            <a:areaCode>28036</a:areaCode>
            <a:category>General</a:category>
            <a:country>Spain</a:country>
            <a:family>Aparcamiento</a:family>
            <a:familyCode>001</a:familyCode>
            <a:id>5</a:id>
            <a:latitude>40.4709976</a:latitude>
            <a:longitude>-3.6800931</a:longitude>
            <a:name>Nuestra Señora del Recuerdo</a:name>
            <a:nickName>Recuerdo</a:nickName>
            <a:state/>
            <a:town>Madrid</a:town>
            <a:type>Rotacion</a:type>
          </a:lstParking>
          <a:lstParking>
            <a:address>c/ Saavedra Fajardo, 7</a:address>
            <a:administrativeArea>Madrid</a:administrativeArea>
            <a:areaCode>28011</a:areaCode>
            <a:category>General</a:category>
            <a:country>Spain</a:country>
            <a:family>Aparcamiento</a:family>
            <a:familyCode>001</a:familyCode>
            <a:id>7</a:id>
            <a:latitude>40.3252575</a:latitude>
            <a:longitude>-3.8691701</a:longitude>
            <a:name>Avenida de Portugal</a:name>
            <a:nickName>AVPortugal</a:nickName>
            <a:state/>
            <a:town>Madrid</a:town>
            <a:type>Rotacion</a:type>
          </a:lstParking>
          ...
        </a:Data>
      </GetListParkingResult>
    </GetListParkingResponse>
  </s:Body>
</s:Envelope>
```

JSON response example:

```
{
  "code": 0,
  "message": "OK - Lista Parking.",
  "data": [ {
```

```
    "address": "c/ Hiedra, 26",
    "administrativeArea": "Madrid",
    "areaCode": "28036",
    "category": "General",
    "country": "Spain",
    "family": "Aparcamiento",
    "familyCode": "001",
    "id": "5",
    "latitude": "40,4709976",
    "longitude": "-3,6800931",
    "name": "NUESTRA SEÑORA DEL RECUERDO",
    "nickName": "RECUERDO",
    "state": "",
    "town": "Madrid",
    "type": "Rotacion"
  }
}
```

DESCRIPTION FOR OUTPUT PARAMETERS

IstParking: Element containing every parking's general information.

address: Parking address.

administrativeArea: Administrative area for the parking.

areaCode: Area code for the parking.

category: Three character category code for the parking.

country: Country in which it is located.

family: Parking family name.

familyCode: Three character code for the parking family (e.g. '001').

id: Id (any parking is identified by a 'family/id' pair).

latitude: Latitude coordinate in WGS84 format.


longitude: Longitude coordinate in WGS84 format.

name: Parking name.

nickName: Nickname for the parking.

state: State in which the parking is located.

town: Town in which the parking is located.

	
	Fecha 19-01-2015

type: Three character code for the parking type (e.g. '001').

listStreetPoisParking

This method returns a list of address, POIs and parkings which match fully or partially an input parameter text.

The coordinates for every found element are returned and, as for POIs and parkings, any general information available (name, web address for its generic icon, nickcame, e-mail, telephone, fax, address, area code, town, state, country and administrative area).

Depending on its availability, family and category, will be returned in the selected language, English or Spanish (in that preference order).

DECLARATION FOR INPUT PARAMETERS


```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetListStreetPoisParking>
      <!--Optional:-->
      <tem:idClient>string</tem:idClient>
      <!--Optional:-->
      <tem:passkey>string</tem:passkey>
      <!--Optional:-->
      <tem:address>string</tem:address>
      <!--Optional:-->
      <tem:language>string</tem:language>
    </tem:GetListStreetPoisParking>
  </soapenv:Body>
</soapenv:Envelope>
```

DESCRIPTION FOR INPUT PARAMETERS

idClient: Required. Authorized client code, supplied by EMT.

passKey: Required. Passkey associated to the client, supplied by EMT.

address: Required. Text to be searched for.

	
	Fecha 19-01-2015


language: Two character code representing the selected language ('ES', 'EN',...).

DECLARATION FOR OUTPUT PARAMETERS

It returns a XML/JSON structure with general information.

XML response example:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetListStreetPoisParkingResponse xmlns="http://tempuri.org/">
      <GetListStreetPoisParkingResult
xmlns:a="http://schemas.datacontract.org/2004/07/InfoParking"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:code>0</a:code>
        <a:message>OK - Lista Calles y POIS.</a:message>
        <a>Data>
          <a:PoisParking>
            <a:address>RECUERDO</a:address>
            <a:addressNumber>1</a:addressNumber>
            <a:administrativeArea i:nil="true"/>
            <a:areaCode i:nil="true"/>
            <a:category i:nil="true"/>
            <a:country i:nil="true"/>
            <a:email i:nil="true"/>
            <a:family i:nil="true"/>
            <a:familyCode i:nil="true"/>
            <a:fax i:nil="true"/>
            <a:id>0</a:id>
            <a:latitude>40.467729107745</a:latitude>
            <a:longitude>-3.68149396038185</a:longitude>
            <a:name i:nil="true"/>
            <a:neutralIcon i:nil="true"/>
            <a:nickName i:nil="true"/>
            <a:state i:nil="true"/>
            <a:telephone i:nil="true"/>
            <a:town i:nil="true"/>
            <a:type>Zona</a:type>
          </a:PoisParking>
          <a:PoisParking>
            <a:address>c/ Hiedra, 26</a:address>
            <a:addressNumber i:nil="true"/>
            <a:administrativeArea>Madrid</a:administrativeArea>
            <a:areaCode>28036</a:areaCode>
            <a:category>General</a:category>
            <a:country>Spain</a:country>
            <a:email i:nil="true"/>
            <a:family>Aparcamiento</a:family>
            <a:familyCode>001</a:familyCode>
            <a:fax i:nil="true"/>
            <a:id>5</a:id>
            <a:latitude>40.4709976</a:latitude>
            <a:longitude>-3.6800931</a:longitude>
          </a:PoisParking>
        </a>Data>
      </GetListStreetPoisParkingResult>
    </GetListStreetPoisParkingResponse>
  </s:Body>
</s:Envelope>
```

	
	Fecha 19-01-2015

```

        <a:name>Nuestra Señora del Recuerdo</a:name>
<a:neutralIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/
Iconos Cuadrado
Pico/aparcamientos_vehiculoselectricos1.png</a:neutralIcon>
        <a:nickName>Recuerdo</a:nickName>
        <a:state/>
        <a:telephone i:nil="true"/>
        <a:town>Madrid</a:town>
        <a:type>Parking</a:type>
    </a:PoisParking>
</a:Data>
</GetListStreetPoisParkingResult>
</GetListStreetPoisParkingResponse>
</s:Body>
</s:Envelope>


```

JSON response example:

```

{
  "code":0,
  "message":OK - Lista Calles y POIS.,
  "data":[{
    "address":c/ Hiedra, 26,
    "addressNumber":,
    "administrativeArea":Madrid,
    "areaCode":28036,
    "category":General,
    "country":Spain,
    "email":,
    "family":Aparcamiento,
    "familyCode":001,
    "fax":,
    "id":5,
    "latitude":40,4709976,
    "longitude":-3,6800931,
    "name":Nuestra Señora del Recuerdo,
    "neutralIcon":https://servicios.emtmadrid.es:8443/InfoParkingDM
Z/iconos/Aparcamiento I/aparcamiento-e-pointer.png,
    "nickName":Recuerdo,
    "state":,
    "telephone":,
    "town":Madrid,
    "type":parking
  }]
}

```

	
	Fecha 19-01-2015

DESCRIPTION FOR OUTPUT PARAMETERS

PoisParking: Element which contains information for every address, POI or parking.

address: Address.

addressNumber: Street number (address only).

administrativeArea: Administrative area for the POI or parking.

areaCode: Area code.

category: Category name for the POI or parking.

country: Country in which it is located.

email: E-mail.

family: Family name for the POI or parking.

familyCode: Three character code for the POI or parking family (e.g. '001').

fax: Public fax for the POI or parking.

id: Id (any POI or parking is identified by a 'family/id' pair).

latitude: Latitude coordinate in WGS84 format.

longitude: Longitude coordinate in WGS84 format.

name: Name.

neutralIcon: Web address for the icon to represent the POI or parking.

nickName: Nickname of the parking.

state: State in which the POI or parking is located.

telephone: Public telephone to contact the POI or parking.

town: Town in which it is located.

type: Returned element type ('Zona' for address, 'Poi' for POIs, 'Parking' for parkings).

listTypesPois

This method returns a list of active POI families, types and categories.

Depending on its availability, family, type and category, will be returned in the selected language, English or Spanish (in that preference order).

DECLARATION FOR INPUT PARAMETERS

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetListTypesPOIs>
      <!--Optional:-->
      <tem:idClient>string</tem:idClient>
      <!--Optional:-->
      <tem:passkey>string</tem:passkey>
      <!--Optional:-->
      <tem:language>string</tem:language>
    </tem:GetListTypesPOIs>
  </soapenv:Body>
</soapenv:Envelope>
```

DESCRIPTION FOR INPUT PARAMETERS

idClient: Required. Código de cliente autorizado para la operación y suministrado por EMT.

passKey: Required. Código de clave asociado al cliente, suministrado por EMT

language: Required. Código de 2 caracteres que representa el idioma seleccionado ('ES', 'EN',...).

DECLARATION FOR OUTPUT PARAMETERS

It returns a XML/JSON structure with every POI type and category.

XML response example:

```
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <GetListTypesPOIsResponse xmlns="http://tempuri.org/">
      <GetListTypesPOIsResult
xmlns:a="http://schemas.datacontract.org/2004/07/InfoParking"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
        <a:code>0</a:code>
```



```
<a:message>OK - Lista Tipo POIs.</a:message>
<a:Data>
  <a:poisType>
    <a:category>Parques y centros de ocio</a:category>
    <a:categoryCode>031</a:categoryCode>
    <a:family>Turismo</a:family>
    <a:familyCode>002</a:familyCode>
    <a:type>Información turística</a:type>
    <a:typeCode>001</a:typeCode>

<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/iconos_circulares/parques_centrosocio.png</a:urlIcon>
  </a:poisType>
  <a:poisType>
    <a:category>Instalaciones culturales</a:category>
    <a:categoryCode>032</a:categoryCode>
    <a:family>Turismo</a:family>
    <a:familyCode>002</a:familyCode>
    <a:type>Información turística</a:type>
    <a:typeCode>001</a:typeCode>

<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/iconos_circulares/instalac_culturales_museos.png</a:urlIcon>
  </a:poisType>
  <a:poisType>
    <a:category>Edificios y monumentos</a:category>
    <a:categoryCode>033</a:categoryCode>
    <a:family>Turismo</a:family>
    <a:familyCode>002</a:familyCode>
    <a:type>Información turística</a:type>
    <a:typeCode>001</a:typeCode>

<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/iconos_circulares/edificios_monumentos.png</a:urlIcon>
  </a:poisType>
  <a:poisType>
    <a:category>Parques y jardines</a:category>
    <a:categoryCode>034</a:categoryCode>
    <a:family>Turismo</a:family>
    <a:familyCode>002</a:familyCode>
    <a:type>Información turística</a:type>
    <a:typeCode>001</a:typeCode>

<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/iconos_circulares/parques.png</a:urlIcon>
  </a:poisType>
  <a:poisType>
    <a:category>Servicios</a:category>
    <a:categoryCode>035</a:categoryCode>
    <a:family>Turismo</a:family>
    <a:familyCode>002</a:familyCode>
    <a:type>Información turística</a:type>
    <a:typeCode>001</a:typeCode>

<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/iconos_circulares/servicios_adicionales.png</a:urlIcon>
  </a:poisType>
  <a:poisType>
    <a:category>Familiar</a:category>
```

```
<a:categoryCode>001</a:categoryCode>
<a:family>Restaurantes</a:family>
<a:familyCode>003</a:familyCode>
<a:type>Asador</a:type>
<a:typeCode>001</a:typeCode>
<a:urlIcon>https://servicios.emtmadrid.es:8443/InfoParking/iconos/Iconos Cuadrado Pico/parques.png</a:urlIcon>
</a:poiType>
</a:Data>
</GetListTypesPOIsResult>
</GetListTypesPOIsResponse>
</s:Body>
</s:Envelope>
```

JSON response example:

```
{
  "code":0,
  "message":OK - Lista Tipo POIs.,
  "data":[{
    "category":Parques y centros de ocio,
    "categoryCode":031,
    "family":Turismo,
    "familyCode":002,
    "type":Información turística,
    "typeCode":001
    "urlIcon":https://servicios.emtmadrid.es:8443/InfoParking/iconos/POIs/parques-ocio-circle.png
  }]
}
```

DESCRIPTION FOR OUTPUT PARAMETERS

poiType: POI type.

- *category*: POI category name.
- *categoryCode*: Three character code for the POI category.
- *family*: POI family name.
- *familyCode*: Three character code for the POI family.
- *type*: POI type name.
- *typeCode*: Three character code for the POI type.
- *urlIcon*: Web address for the icon representing the POI type.


CALLING EXAMPLES

iconDescription

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetDescriptionIcon>
      <!--Optional:-->
      <tem:idClient>idCliente</tem:idClient>
      <!--Optional:-->
      <tem:passkey>PassKey</tem:passkey>
      <!--Optional:-->
      <tem:language>ES</tem:language>
    </tem:GetDescriptionIcon>
  </soapenv:Body>
</soapenv:Envelope>
```

detailParking

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/"
xmlns:inf="http://schemas.datacontract.org/2004/07/InfoParking">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetDetailParking>
      <!--Optional:-->
      <tem:idClient>idCliente</tem:idClient>
      <!--Optional:-->
      <tem:passkey>PassKey</tem:passkey>
      <!--Optional:-->
      <tem:parametersDetailParking>
        <inf:date>2015-02-01</inf:date>
        <!--Optional:-->
        <inf:family>001</inf:family>
        <!--Optional:-->
        <inf:id>5</inf:id>
        <!--Optional:-->
        <inf:language>ES</inf:language>
        <!--Optional:-->
        <inf:publicData>1</inf:publicData>
      </tem:parametersDetailParking>
    </tem:GetDetailParking>
  </soapenv:Body>
</soapenv:Envelope>
```

	
	Fecha 19-01-2015

```

</tem:GetDetailParking>
</soapenv:Body>
</soapenv:Envelope>

```

detailPOI

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/"
xmlns:inf="http://schemas.datacontract.org/2004/07/InfoParking">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetDetailPOI>
      <!--Optional:-->
      <tem:idClient>idCliente</tem:idClient>
      <!--Optional:-->
      <tem:passkey>PassKey</tem:passkey>
      <!--Optional:-->
      <tem:parametersDetailPOI>
        <!--Optional:-->
        <inf:family>002</inf:family>
        <!--Optional:-->
        <inf:id>30</inf:id>
        <!--Optional:-->
        <inf:language>es</inf:language>
      </tem:parametersDetailPOI>
    </tem:GetDetailPOI>
  </soapenv:Body>
</soapenv:Envelope>

```

infoParkingPoi

Calling example with no filters, with as few parameters as possible: Only idclient, passKey and system date are supplied.

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/"
xmlns:inf="http://schemas.datacontract.org/2004/07/InfoParking"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetInfoParkingPoisForCoordinate>
      <!--Optional:-->
      <tem:idClient>idCliente</tem:idClient>

```

```
<!--Optional:-->
<tem:passkey>PassKey</tem:passkey>
<!--Optional:-->
<tem:parameters>
  <inf:dateTimeUse>2015-02-01</inf:dateTimeUse>
</tem:parameters>
</tem:GetInfoParkingPoisForCoordinate>
</soapenv:Body>
</soapenv:Envelope>
```

Calling example with:

- Coordinate and radius.
- Several POI family/type, every one with specific categories.
- Several parking filters, every one with specific features, including parking spot types, which makes necessary to specify the minimum places available for each one of them (0 in case of not establishing a minimum).

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/"
xmlns:inf="http://schemas.datacontract.org/2004/07/InfoParking"
xmlns:arr="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetInfoParkingPoisForCoordinate>
      <!--Optional:-->
      <tem:idClient>idCliente</tem:idClient>
      <!--Optional:-->
      <tem:passkey>PassKey</tem:passkey>
      <!--Optional:-->
      <tem:parameters>
        <!--Optional:-->
        <inf:TFamilyTTypeTCategory>
          <!--Optional:-->
          <inf:lstFamilyTypeCategory>
            <!--Zero or more repetitions:-->
            <inf:pois>
              <!--Optional:-->
              <inf:poiCategory>
                <!--Optional:-->
                <inf:lstCategoryTypes>
                  <!--Zero or more repetitions:-->
                  <arr:string>031</arr:string>
                  <arr:string>033</arr:string>
                </inf:lstCategoryTypes>
              </inf:poiCategory>
              <!--Optional:-->
              <inf:poiFamily>002</inf:poiFamily>
              <!--Optional:-->
              <inf:poiType>001</inf:poiType>
            </inf:pois>
            <inf:pois>
              <!--Optional:-->
```

```
<inf:poiCategory>
  <!--Optional:-->
  <inf:lstCategoryTypes>
    <!--Zero or more repetitions:-->
    <arr:string>031</arr:string>
    <arr:string>033</arr:string>
  </inf:lstCategoryTypes>
</inf:poiCategory>
<!--Optional:-->
<inf:poiFamily>002</inf:poiFamily>
<!--Optional:-->
<inf:poiType>002</inf:poiType>
</inf:pois>
</inf:lstFamilyTypeCategory>
</inf:TFamilyTTypeTCategory>
<!--Optional:-->
<inf:coordinate>
  <!--Optional:-->
  <inf:latitude>40.4709976</inf:latitude>
  <!--Optional:-->
  <inf:longitude>-3.6800931</inf:longitude>
</inf:coordinate>
<!--Optional:-->
<inf:dateTimeUse>2015-02-01</inf:dateTimeUse>
<!--Optional:-->
<inf:language>ES</inf:language>
<!--Optional:-->
<inf:minimumPlacesAvailable>
  <!--Optional:-->
  <inf:lstminimumPlacesAvailable>
    <!--Zero or more repetitions:-->
    <arr:string>10</arr:string>
    <arr:string>1</arr:string>
  </inf:lstminimumPlacesAvailable>
</inf:minimumPlacesAvailable>
<!--Optional:-->
<inf:nameFieldCodes>
  <!--Optional:-->
  <inf:lstNameFieldCodes>
    <!--Zero or more repetitions:-->
    <inf:nameFieldParking>
      <!--Optional:-->
      <inf:codes>
        <!--Optional:-->
        <inf:lstCodes>
          <!--Zero or more repetitions:-->
          <arr:string>001</arr:string>
          <arr:string>003</arr:string>
        </inf:lstCodes>
      </inf:codes>
      <!--Optional:-->
      <inf:nameField>Tipo plaza</inf:nameField>
    </inf:nameFieldParking>
    <inf:nameFieldParking>
      <!--Optional:-->
      <inf:codes>
```

```
        <!--Optional:-->
        <inf:lstCodes>
            <!--Zero or more repetitions:-->
            <arr:string>001</arr:string>
            <arr:string>025</arr:string>
        </inf:lstCodes>
    </inf:codes>
    <!--Optional:-->
    <inf:nameField>Servicios
adicionales</inf:nameField>
    </inf:nameFieldParking>
</inf:lstNameFieldCodes>
</inf:nameFieldCodes>
<!--Optional:-->
    <inf:radius>10</inf:radius>
</tem:parameters>
</tem:GetInfoParkingPoisForCoordinate>
</soapenv:Body>
</soapenv:Envelope>
```

listFeatures

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/"
xmlns:inf="http://schemas.datacontract.org/2004/07/InfoParking">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetListFeatures>
      <!--Optional:-->
      <tem:idClient>idCliente</tem:idClient>
      <!--Optional:-->
      <tem:passkey>PassKey</tem:passkey>
      <!--Optional:-->
      <tem:parametersListFeatures>
        <!--Optional:-->
        <inf:language>ES</inf:language>
        <!--Optional:-->
        <inf:publicData>1</inf:publicData>
      </tem:parametersListFeatures>
    </tem:GetListFeatures>
  </soapenv:Body>
</soapenv:Envelope>
```

listParking

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetListParking>
      <!--Optional:-->
      <tem:idClient>idCliente</tem:idClient>
      <!--Optional:-->
      <tem:passkey>PassKey</tem:passkey>
      <!--Optional:-->
      <tem:language>ES</tem:language>
    </tem:GetListParking>
  </soapenv:Body>
</soapenv:Envelope>
```

listStreetPoisParking

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetListStreetPoisParking>
      <!--Optional:-->
      <tem:idClient>idCliente</tem:idClient>
      <!--Optional:-->
      <tem:passkey>PassKey</tem:passkey>
      <!--Optional:-->
      <tem:address>recuerdo</tem:address>
    </tem:GetListStreetPoisParking>
  </soapenv:Body>
</soapenv:Envelope>
```


listTypesPois

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:tem="http://tempuri.org/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:GetListTypesPOIs>
      <!--Optional:-->
      <tem:idClient>idCliente</tem:idClient>
      <!--Optional:-->
      <tem:passkey>PassKey</tem:passkey>
      <!--Optional:-->
      <tem:language>ES</tem:language>
    </tem:GetListTypesPOIs>
  </soapenv:Body>
</soapenv:Envelope>
```