



Holiday

Documentation and step-by-step guide

v1.0





Table of contents

Overview	2
WSDL	2
Operações	2
Examples	4
Visual Basic .Net	4
Preparing windows form	4
Obtain all holidays	5
Obtain Carnival holiday	5
Obtain local holidays	5
Obtain municipal holidays	5
Visual C# .Net	6
Preparing windows form	6
Obtain all holidays	6
Obtain Carnival holiday	6
Obtain local holidays	7
Obtain municipal holidays	7
Java	7
Considerations	7
Obtain all holidays	8
Obtain Carnival holiday	8
Obtain local holidays	8
Obtain municipal holidays	8





Overview

This service lists national, regional and municipal holidays. Supports the calculation of holidays from 1582 to 2299.

WSDL

The WSDL contract can be found at this address

http://services.sapo.pt/Metadata/Contract/Holiday?culture=EN

Operações

GetAllHolidays

Obtains all holidays from a year

Arguments

Integer year - Year

Returns

GetAllHolidaysResult - Holidays' list

GetCarnival

Obtains the carnival holiday's information, like a date from a year

Arguments

• Integer year - Year

Returns

GetCarnivalResult - Carnival holiday's informations

GetCorpusChristi

Obtains the Corpus Christi holiday's information, like a date from a year

Arguments

Integer year - Year

Returns

• GetCorpusChirstiResult - Corpus Christi holiday's information





GetEaster

Obtains easter holiday's information, like a date from a year

Arguments

• Integer year - Year

Returns

• GetEasterResult - Easter holiday's information

GetGoodFriday

Obtains Good Friday holiday's information, like a date from a year

Arguments

Integer year - Year

Returns

• GetGoodFridayResult - Good Friday holiday's information

GetHolidaysByMunicipalityId

Obtains all municipal holidays

Arguments

- Integer year Year
- municipalityId Municipality identifier
- includeNational Include national holidays

Returns

• GetHolidaysByMunicipalityIdResult - Municipal holidays' list

GetLocalHolidays

Obtains local holidays

Arguments

Integer year - Year

Returns

• GetLocalHolidaysResult - Local holidays' list





GetNationalHolidays

Obtains national holidays

Arguments

Integer year - Year

Returns

GetNationalHolidaysResult - National holidays' list

GetRegionalHolidays

Obtains regional holidays

Arguments

Integer year - Year

Returns

GetRegionalHolidaysResult - Regional holidays' list

Examples

Visual Basic .Net

To consume this web service, a proxy client might be used. The following steps will guide you to import this proxy client:

- 1. Extract the content of downloaded file
- 2. Import extracted files into the project tree
- 3. If there is a *app.config* file already in the project, you can rather delete it or merge the content of *output.config* file with this one. Otherwise, just rename the file *output.config* to *app.config*
- 4. Right click on your project, in the project explorer, and press **Add Reference...**. Select **.NET** tab and choose the following components and press **OK**:
 - o System.Runtime.Serialization
 - System.ServiceModel
- 5. To create an instance of this proxy client, just use the following code

```
Dim holiday As HolidaySoapClient
holiday = New HolidaySoapClient()
```

Preparing windows form

On windows' form, put:

NumericUpDown named year, with the following properties:





- Maximum = 2299
- Minimum = 1852
- ListBox named *hlist*, that will be used to list holidays

Obtain all holidays

GetAllHolidays

Obtain Carnival holiday

GetCarnival

```
Dim h As Holiday
' Obtain carnival holiday of an year
h = holiday.GetCarnival(year.Value)
' Shows when it will be
MsgBox("Carnival: " + h.Date)
```

Obtain local holidays

GetLocalHolidays

Obtain municipal holidays

GetHolidaysByMunicipalityId

```
Dim holidays() As Holiday

'Obtains municipal holidays of an year, using municipality identifier
(in this case 1030), including also national holidays
holidays = holiday.GetHolidaysByMunicipalityId(year.Value, "1030",
True)

Dim holidaysDS As List(Of String)
```





```
holidaysDS = New List(Of String)

' Create a list of holidays
For Each item As Holiday In holidays
holidaysDS.Add(item.Date & " (" & item.Name & ") " & item.Description)
Next

' Use the list as the ListBox's data source
hlist.DataSource = holidaysDS
```

Visual C# .Net

To consume this web service, a proxy client might be used. The following steps will guide you to import this proxy client:

- 1. Extract the content of downloaded file
- 2. Import extracted files into the project tree
- If there is a *app.config* file already in the project, you can rather delete it or merge the content of *output.config* file with this one. Otherwise, just rename the file *output.config* to *app.config*
- 4. Right click on your project, in the project explorer, and press **Add Reference...**. Select **.NET** tab and choose the following components and press **OK**:
 - System.Runtime.Serialization
 - System.ServiceModel
- 5. To create an instance of this proxy client, just use the following code

```
HolidaySoapClient holiday = new HolidaySoapClient();
```

Preparing windows form

On windows' form, put:

- NumericUpDown named year, with the following properties:
 - Maximum = 2299
 - Minimum = 1852
- ListBox named *hlist*, that will be used to list holidays

Obtain all holidays

GetAllHolidays

```
Holiday[] holidays;
// Obtain all holidays of an year
holidays = holiday.GetAllHolidays((int)year.Value);

List<String> holidaysDS = new List<String>();

// Create a list of holidays
foreach(Holiday item in holidays){
   holidaysDS.Add(item.Date + " (" + item.Name + ") " + item.Description);
}

// Use the list as the ListBox's data source
hlist.DataSource = holidaysDS;
```

Obtain Carnival holiday





GetCarnival

```
Holiday h;
// Obtain carnival holiday of an year
h = holiday.GetCarnival((int)year.Value);

// Shows when it will be
MessageBox.Show("Carnival: " + h.Date);
```

Obtain local holidays

GetLocalHolidays

```
Holiday[] holidays;
// Obtain local holidays of an year
holidays = holiday.GetLocalHolidays((int)year.Value);

List<String> holidaysDS = new List<String>();

// Create a list of holidays
foreach (Holiday item in holidays)
{
   holidaysDS.Add(item.Date + " (" + item.Name + ") " + item.Description);
}

// Use the list as the ListBox's data source
hlist.DataSource = holidaysDS;
```

Obtain municipal holidays

GetHolidaysByMunicipalityId

```
Holiday[] holidays;

// Obtains municipal holidays of an year, using municipality identifier (in this case 1030), including also national holidays holidays = holiday.GetHolidaysByMunicipalityId((int)year.Value, "1030", true);

List<String> holidaysDS = new List<String>();

// Create a list of holidays foreach (Holiday item in holidays) {
   holidaysDS.Add(item.Date + " (" + item.Name + ") " + item.Description);
}

// Use the list as the ListBox's data source hlist.DataSource = holidaysDS;
```

Java

Considerations

To consume this web service, a proxy client might be used. The following steps will guide you to import this proxy client:

- 1. Extract the content of downloaded file
- Import extracted files into your project's *src* folder. If you are using an IDE (e.g.: Netbeans or Eclipse), move the files into *source* folder in the IDE project explorer.
- 3. Clean and build your project
- 4. To create an instance of this proxy client, just use the following code





```
HolidaySoap holiday = (new Holiday_Service()).getHolidaySoap();
```

Obtain all holidays

GetAllHolidays

Obtain Carnival holiday

GetCarnival

```
// Obtain carnival holiday of 2011
Holiday h = holiday.getCarnival(2011);

// Shows its description and date
System.out.println(h.getName().getValue() + " (" + h.getDate() + ")");
System.out.println(h.getType().value());
System.out.println(h.getDescription().getValue());
```

Obtain local holidays

GetLocalHolidays

Obtain municipal holidays

GetHolidaysByMunicipalityId