

51Degrees.mobi PHP Quick Start Guide

Quick Start

Complete the following 4 steps in your PHP environment to start getting information about requesting mobile devices.

Step 1 - Download the Zip file.

Step 2 - Unzip the solution into the directory of your choice

Step 3 - Then add the following code to your php file:

```
include_once('path/to/51Degrees.mobi.php');
```

(It is recommended for performance purposes that this is included after a `session_start()`; The file name will also be different depending on the project's build date.)

Step 4 - Get the details about the device that is trying to access your code with code like this:

```
if($_51D['IsMobile'] == 'True')
{
    //Start coding for a mobile device here.
}
```

What is Foundation?

51Degrees.mobi Foundation provides intelligence about the device, operating system and browser accessing a web site at run time enabling developers and designers to adapt the initial response from the server. Existing web sites can be converted to support mobile devices quickly. The solution can be combined with emerging solutions such as responsive client design to produce great results quickly.

Using the Foundation

All the requesting device properties are stored in a variable called `$_51D`, which is populated automatically after including the 51Degrees.mobi Foundation script, as detailed in the 'Quick Start' section.

For more information on what keys are available, and their possible values please see the section on 'Using the Meta Data' and the following web page.

<http://51degrees.mobi/products/devicedata/propertydictionary>

The data within each key of the `$_51D` variable will either be a string value if the property can only hold a single value, or an array if a property may have multiple value. For instance, 'HardwareName' may return many values as a device may have a different name in different regions. Even if a particular device only has one value for such a property, it will still return an array. These properties are noted in the property dictionary with 'L', for list.

To utilize any particular key, use `$_51D['PropertyName']`, replacing PropertyName with the 51Degrees.mobi property name of your choice, as in the property dictionary linked above.

A single property can be found using this code:

```
if($_51D['IsMobile'] == 'True')
{
    // This device is mobile
}
```

As the values are always of type string, 'True' and 'False' values need to be evaluated as strings.

Note that if a property used in this way returns 'Array' it should be treated as a list property as below.

Specific values in list property can be found using the 'isset' function, but it can be viewed and sorted just like any other array can.

```
if(isset($_51D['CcppAccept']['audio/mp3']))
{
    // The browser accepts mp3 files.
}
```

Note that 'CcppAccept' is a premium property, can only be used with premium data. Go to <http://51degrees.mobi/Products/DeviceData.aspx> for more information.

'Hello World' Example Project

```
<?php
session_start();
include_once('path/to/51Degrees/51Degrees.mobi.php');
if($_51D['IsMobile'] == 'True')
{
    //This device is a mobile. You can now use mobile stylesheets.
    //Let's print out the Height and Width of the screen.
    echo '<br />ScreenHeight: '.$_51D['ScreenPixelsHeight'];
    echo '<br />ScreenWidth: '.$_51D['ScreenPixelsWidth'];
}
?>
```

Using Meta Data

51Degrees.mobi provides a wide range of properties. Within the solution a separate metadata variable called `$_51DMetadata` is optionally provided. To access this, you will need to add the following code:

```
include_once('path/to/51DMetadata.php');
```

The `$_51DMetadata` variable holds a simple data structure containing properties, the description of the properties along with possible values and where defined value descriptions. To find a full list of properties available, either loop through `$_51DMetadata` or use:

```
var_dump(array_keys($_51DMetadata));
```

Within each property are three sections, **Description**, **List** and **Values**. In this document we will concentrate on **Description** and **Values**.

Description offers a full description of what the property means. To answer the question “Is ‘IsMobile’ particularly useful to you?” all you need is the following line of code:

```
echo $_51DMetadata['IsMobile']['Description'];
```

This line will output the full description for that key name. In the case of IsMobile:

The device's primary data connection is wireless and is designed to operate mostly from battery power (ie a mobile phone, smart phone or tablet).

Inside each of the metadata array keys is a list of potential values that could be presented, with descriptions for those that are not self-explanatory. You can access this information by looping through the ExportValues array of the property you want. For example, with IsMobile:

```
foreach($_51DMetadata['IsMobile']['Values'] as $key => $value) {  
    echo $key.': '.$value['Description'].'<br />';  
}
```

For more information about the meaning of data exposed via 51Degrees.mobi see the following page.

<http://51degrees.mobi/products/devicedata/propertydictionary>

Advanced Suggestions

These suggestions will improve the performance of your solution significantly and are highly recommended for production deployment.

APC/WinCache

To significantly increase performance, we recommend that you use APC or WinCache. The installation procedure changes depending upon your site host and server configuration. For full installation instructions, please see:

<http://si2.php.net/manual/en/apc.installation.php>

IIS/WebMatrix installations

For IIS and WebMatrix PHP users, it is recommended to use Microsoft's WinCache. For full details, go to <http://www.iis.net/download/WinCacheForPhp> and use the link for the Web Platform Installer to install WinCache.

Windows XAMPP/Windows-Server run Apache installations

1) Download the APC installation at <http://downloads.php.net/pierre/> (search for APC and download the version closest to your PHP installation. For example, for 5.3, use [php_apc-3.1.10-5.3-vc9-x86.zip](#)).

2) Extract the file in the /ts folder of the zip file to the ext folder of your PHP installation

Add the following line to your php.ini file under [Extensions]:

```
add extension=php_apc.dll
```

4) Open to the httpd.conf file in a text editor.

5) Replace all instances of

```
AllowOverride None
```

with

```
AllowOverride All
```

6) If Apache is running, stop it and start it back up again.

Unix/Linux Servers

Please ensure you are running PECL first. If this is installed and running, to install APC type the following into your command line:

```
sudo pecl install apc
```

You may need to restart Apache after the installation.

Sockets

Usage information from live Foundation deployments provides 51Degrees.mobi insight to improve performance, and locate new or less popular devices quickly. It is amalgamated with other data sources to bring you this solution. UDP messages are used to transmit usage information when sockets are enabled.

Most PHP environments by default will enable sockets. However, on some IIS or Windows Server PHP default installations (e.g. WebMatrix), the extension needs to be enabled manually.

Windows Servers

Open the PHP configuration file (php.ini) in the text editor of your choice and search for the following line:

```
;extension=php_sockets.dll
```

Simply uncomment this line like this:

```
extension=php_sockets.dll
```

Unix/Linux

Open the PHP configuration file (php.ini) in the text editor of your choice and search for the following line:

```
;extension=sockets.so
```

If this line is not available, then add, or otherwise uncomment this line like this:

```
extension=sockets.so
```