



Developers' Guide

Framework

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8 Supporting Classes

8.1 Message

The SMS.Message class can be used to generate text message that contain a hyperlink with a reference to a mobile profile which will enable subsequent retrieval of the mobile number. An example use of the class follows.

C#

```
string message = FiftyOne.Framework.SMS.Message.Create(
    "Click this link to open the web site. {0}",
    new Uri("http://example.com"),
    new MobileNumber("01234987654"));
```

8.2 Mobile Profiles

The ProfileBase class encapsulates a MobileProfile and contains the following properties and methods.

| Class / Enumeration | Property / Method | Description |
|---------------------|-------------------|---|
| ProfileBase | Bandwidth | Gets the Round trip Bandwidth in Kbps for the mobile device based on the recent interactions. |
| | Keys | Gets string collection keys which associated with MobileProfile data. |
| | MobileNumber | Gets or sets the associated MobileNumber of MobileProfile. |
| | ProfileID | The unique string ID for this mobile profile. |
| | ProfileKey | The unique encrypted and encoded string ID for this mobile profile. |
| | Remove | Removes the data item from MobileProfile data based on the key. If no item found with the specified key MobileException will be thrown. |
| | ResponseTime | Gets the average Response time in ms for an device based on the recent interactions with the Web application. |

The MobileProfiles static class is used to create and save ProfileBase classes in persistent storage. The following methods and properties are available. Methods will take either a string as the profile key or a MobileNumber object.

| Class / Enumeration | Property / Method | Description |
|---------------------|-------------------|---|
| MobileProfiles | Contains | Returns true if the specified MobileNumber or ProfileKey associates with a MobileProfile. |

| Class / Enumeration | Property / Method | Description |
|---------------------|-------------------|---|
| | Create | Creates a new mobile profile with the optional inclusion of a MobileNumber or ProfileKey. |
| | Current | Returns the current mobile profile for the request, or null if one is not available. |
| | GetProfile | Retrieves the mobile profile using the key provided. |
| | Save | Passed a mobile profile to persist to the database. |

8.3 Telephone Numbers

The standard .NET framework does not include classes to represent telephone numbers. 51Degrees.mobi fills this gap with the TelephoneNumber and MobileNumber classes. These classes are mainly used with the Mobile Profile’s mobile number key. In the future they can be expanded to support text messaging.

| Class / Enumeration | Property / Method | Description |
|---------------------------------|-------------------|--|
| TelephoneNumber | Constructor | <p>Constructor(String) – Creates a new TelephoneNumber instance based on the string representation of the number. Type will default to unknown.</p> <p>Constructor(String, TelephoneNumberType) – Creates a new telephone number of the type TelephoneNumberType provided.</p> <p>Telephone number can optionally include a + prefix to indicate the international 2 digit code.</p> |
| | LocalNumber | Returns a telephone number with the international prefix removed. This may be more familiar to the end users. |
| | Number | Returns the full telephone number including internal prefix. |
| | IsValid | Returns true if the telephone number provided in the constructor is valid. Otherwise false. |
| | Encrypted | Provides an encrypted version of the telephone number using the Cypto support classes. |
| | Type | Returns the type of telephone number from the TelephoneNumberType enumeration. |
| TelephoneNumber -> MobileNumber | | Inherits TelephoneNumber and should only be used to represent mobile numbers. Used with Mobile |

| Class / Enumeration | Property / Method | Description |
|---------------------|-------------------|---|
| | | Profile and the MobileNumber key. |
| TelephoneNumberType | | Valid values are; Fax, FixedLineVoice, Mobile, Unknown. |