

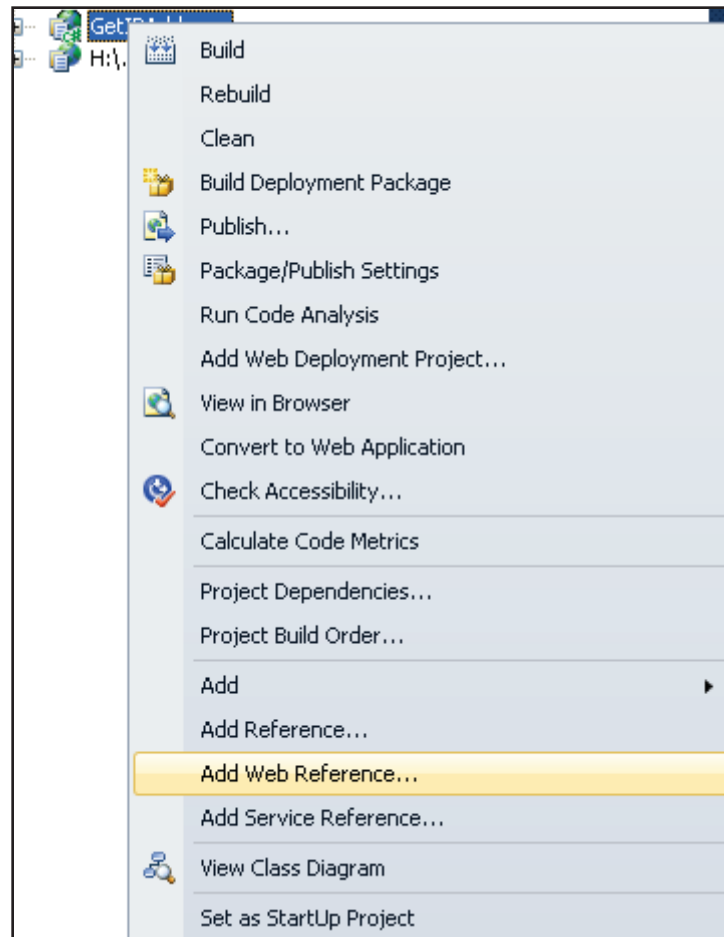
 GOVERNMENT OF DUBAI	Organization Un Geographic Information Systems Center الوحدة التنظيمية : Makani - Open Data البيانات المفتوحة لمكاني Manual to use Makani Web Service دليل لاستخدام الخدمة الالكترونية لبيانات مكاني	 بلدية دبي DUBAI MUNICIPALITY
--	---	--

Makani Public Web Service Access

The following explains how to access Makani Public web services using .NET Technology

To consume the Makani public services add the reference as shown below.

1. Go to VS 2010, Create/ Open a New Project.
2. Right click on project in solution explorer and „click“ on Add Web Reference/ Add Service Reference as shown below.



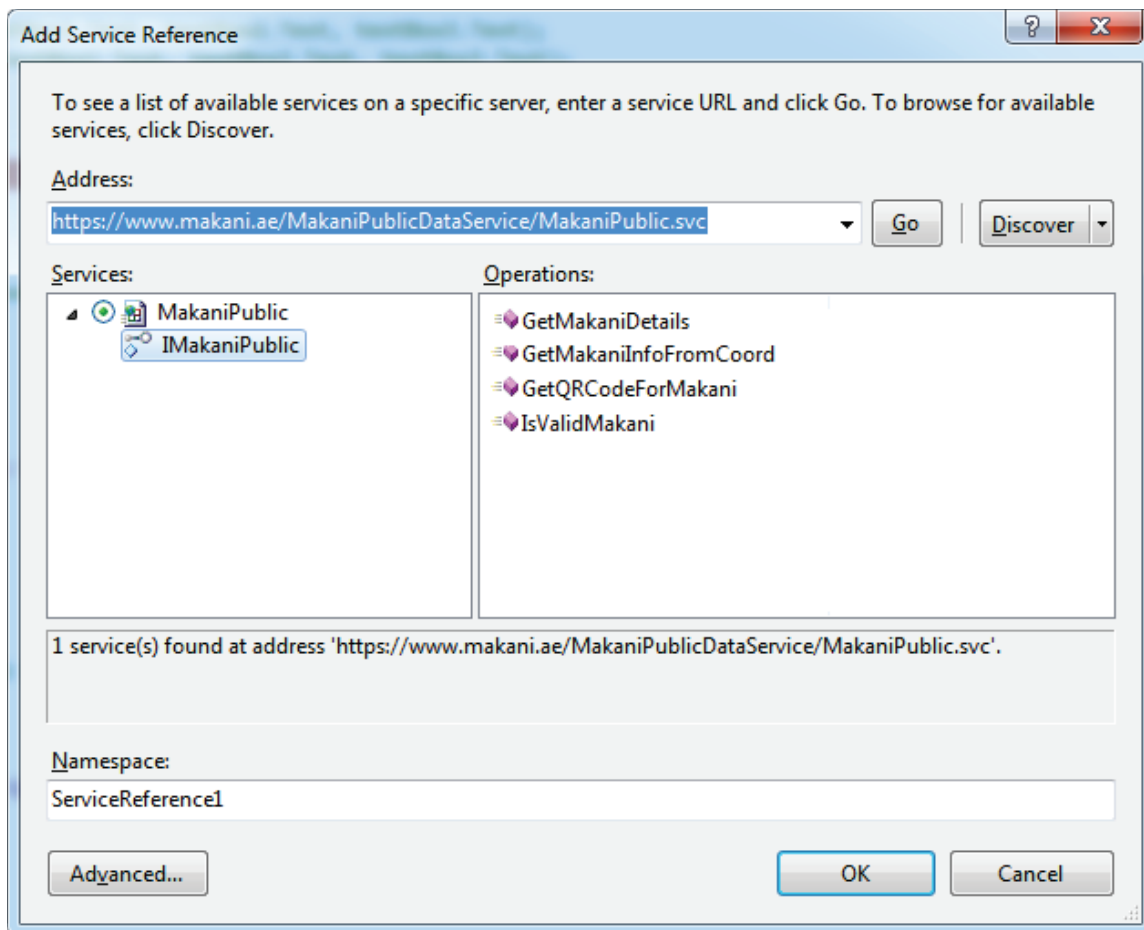
3. Type the service address as mentioned below and click „Go“ the corresponding services and its operations are displayed as shown below

This URL for .Net technology:

<https://www.makani.ae/MakaniPublicDataService/MakaniPublic.svc?wsdl>

This URL for other technologies:

<https://www.makani.ae/MakaniPublicDataService/MakaniPublic.svc>



Add Service Reference

To see a list of available services on a specific server, enter a service URL and click Go. To browse for available services, click Discover.

Address:
 Go **Discover**

Services:

- MakaniPublic
- IMakaniPublic

Operations:

- GetMakaniDetails
- GetMakaniInfoFromCoord
- GetQRCodeForMakani
- IsValidMakani

1 service(s) found at address 'https://www.makani.ae/MakaniPublicDataService/MakaniPublic.svc'.

Namespace:

Advanced... **OK** **Cancel**

4. Give a namespace e.g. "MakaniPublic" and click „Ok“.
5. In the code behind, declare an object as show below

MakaniPublic.MakaniPublicClientobjClient = new MakaniPublic.MakaniPublicClient();

 GOVERNMENT OF DUBAI	Organization Un Geographic Information Systems Center الوحدة التنظيمية : Makani - Open Data البيانات المفتوحة لمكاني Manual to use Makani Web Service دليل لاستخدام الخدمة الالكترونية لبيانات مكاني	 بلدية دبي DUBAI MUNICIPALITY
--	---	--

Web service - Function/ Methods:

Function	string GetMakaniInfoFromCoord(string latitude, string longitude, string remarks)
Description	When entering the coordinate (latitude & longitude) for certain location, this method/function will return building details (in case this location falls inside a building), Makani details for the building and latitude & longitude for each Makani Number. Makani entrance(s) for the building can be plotted / pinned on an electronic map by using the latitude & longitude for each Makani Number.
Input	Output
- Latitude value - Longitude value	- Makani Number(s) with their coordinates if the input coordinates falls within a building. - If the building has multiple entrances, then the Makani number for all the entrances shall be returned. - Entrance name (Arabic and English) for each Makani number. - URL for Makani location for each entrance. - Latitude and Longitude for each Makani number. - Building name (Arabic and English). - Community name (Arabic and English). - Emirate name (Arabic and English).
Input Sample	
objClient.GetMakaniInfoFromCoord("25.2646373", " 55.312168", "Public Remarks");	
Output Sample	
<pre>{ "COMMUNITY_E": "AL RIGGA - 119", "COMMUNITY_A": "الرقة - 119", "BLDG_NAME_E": "Dubai Municipality- Main Office", "BLDG_NAME_A": "البلدية دبي - المبنى الرئيسي", "EMIRATE_E": "DUBAI", "EMIRATE_A": "دبي", "MAKANI_INFO": [{ "MAKANI": "30032 95320", "LATLNG": "25.2646373680001,55.3121682890001", "ENT_NAME_E": "", "ENT_NAME_A": "", "ENT_NO": " ", "SHORT_URL": "http://www.makani.ae/q?l=E&m=30032 95320" }, { "MAKANI": "29969 95333", "LATLNG": "25.2647474540001,55.3115426040001", "ENT_NAME_E": "", "ENT_NAME_A": "", "ENT_NO": " ", "SHORT_URL": "http://www.makani.ae/q?l=E&m=29969 95333" }] }</pre>	

 GOVERNMENT OF DUBAI	Organization Un Geographic Information Systems Center الوحدة التنظيمية : Makani - Open Data البيانات المفتوحة لمكاني Manual to use Makani Web Service دليل لاستخدام الخدمة الالكترونية لبيانات مكاني	 بلدية دبي DUBAI MUNICIPALITY
--	---	--

Function	<code>string IsValidMakani(string makanino, string remarks)</code>
Description	Makani Number is generated to uniquely identify each main entrance of an existing building. When entering Makani Number for certain entrance, this method/function will verify if the entry is valid.
Input	Output
• Makani number	• True. OR •False. • Emirate name(Arabic and English)..
Input Sample	
objClient.IsValidMakani("30032 95320","Public Remarks");	
Output Sample	
<pre>{ "MAKANI": "30032 95320", "IS_VALID": "true", "VALID": [{ "EMIRATE_E": "DUBAI", "EMIRATE_A": "دبي" }] }</pre>	

Function	<code>string GetMakaniDetails(string makanino, string remarks)</code>
Description	When entering Makani Number for certain building entrance, this method/function will return building details and Makani details for the building. In case Makani Number is available in more than one emirate, this method/function will list the emirates and their communities.
Input	Output
• Makani number (valid number)	• Makani Number. • Entrance name (Arabic and English) for Makani number. • URL for Makani location. • Community name (Arabic and English). • Building name (Arabic and English). • Emirate name (Arabic and English). • Latitude and Longitude for Makani.
Input Sample	
objClient.GetMakaniDetails("30032 95320","Public Remarks");	
Output Sample	

 GOVERNMENT OF DUBAI	Organization Un Geographic Information Systems Center الوحدة التنظيمية : Makani - Open Data البيانات المفتوحة لمكاني Manual to use Makani Web Service دليل لاستخدام الخدمة الالكترونية لبيانات مكاني	 بلدية دبي DUBAI MUNICIPALITY
--	---	--

```
{
  "MAKANI": "30032 95320",
  "MAKANI_INFO": [{
    "COMMUNITY_E": "AL RIGGA - 119",
    "COMMUNITY_A": "الرقة - 119",
    "ENT_NAME_E": "",
    "ENT_NAME_A": "",
    "ENT_NO": " ",
    "BLDG_NAME_E": "Dubai Municipality- Main Office",
    "BLDG_NAME_A": "البلدية دبي - المبنى الرئيسي",
    "EMIRATE_E": "DUBAI",
    "EMIRATE_A": "دبي",
    "LATLNG": "25.2646373680001,55.3121682890001",
    "SHORT_URL": "http://www.makani.ae/q?l=E&m=30032 95320"
  ]
}
```

Function	string GetQRCodeForMakani(string makanino, string remarks)														
Description	When entering Makani Number, this method/function returns the QR Code download path in .jpg file which includes URL for entrance's location link.														
Input	Output														
Makani number.	- QR Code includes location link for the specified Makani number (short URL for Makani location). - Emirate name (Arabic and English).														
Input Sample															
objClient.GetQRCodeForMakani("30032 95320", "Public Remarks");															
<table border="1"> <tr><td>Dubai</td><td>http://www.makani.ae/q?l=E&m=3003295320</td></tr> <tr><td>Abu Dhabi</td><td>http://www.makani.ae/q?l=E& E=AD&m=1474136963</td></tr> <tr><td>Ajman</td><td>http://www.makani.ae/q?l=E&E=A&m=0041085963</td></tr> <tr><td>Fujairah</td><td>http://www.makani.ae/q?l=E&E=F&m=3575325852</td></tr> <tr><td>RAK</td><td>http://www.makani.ae/q?l=E&E=R&m=3214569870</td></tr> <tr><td>Sharjah</td><td>http://www.makani.ae/q?l=E&E=S&m=1256085269</td></tr> <tr><td>UAQ</td><td>http://www.makani.ae/q?l=E&E=U&m=1258715951</td></tr> </table>		Dubai	http://www.makani.ae/q?l=E&m=3003295320	Abu Dhabi	http://www.makani.ae/q?l=E& E=AD&m=1474136963	Ajman	http://www.makani.ae/q?l=E&E=A&m=0041085963	Fujairah	http://www.makani.ae/q?l=E&E=F&m=3575325852	RAK	http://www.makani.ae/q?l=E&E=R&m=3214569870	Sharjah	http://www.makani.ae/q?l=E&E=S&m=1256085269	UAQ	http://www.makani.ae/q?l=E&E=U&m=1258715951
Dubai	http://www.makani.ae/q?l=E&m=3003295320														
Abu Dhabi	http://www.makani.ae/q?l=E& E=AD&m=1474136963														
Ajman	http://www.makani.ae/q?l=E&E=A&m=0041085963														
Fujairah	http://www.makani.ae/q?l=E&E=F&m=3575325852														
RAK	http://www.makani.ae/q?l=E&E=R&m=3214569870														
Sharjah	http://www.makani.ae/q?l=E&E=S&m=1256085269														
UAQ	http://www.makani.ae/q?l=E&E=U&m=1258715951														
Output Sample															
<pre>{ "MAKANI": "30032 95320", "QR_CODES": [{ "QR_CODE_URL": "http://stg.gis.gov.ae/MakaniPublicData/QRCodeFiles_Server1/DUBAI_30032 95320.jpg", "EMIRATE_E": "DUBAI", "EMIRATE_A": "دبي"] }</pre>															