

الوحدة التنظيمية:



Manual to use Makani Web Service

Makani - Open Data

دليل لاستخدام الخدمة الالكترونية لبيانات مكاني

## 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.

/		
8 📸 Get. 8 🎓 H:\.		Build
		Rebuild
		Clean
	6	Build Deployment Package
	2	Publish
	1	Package/Publish Settings
		Run Code Analysis
		Add Web Deployment Project
	3	View in Browser
		Convert to Web Application
	<b>©</b>	Check Accessibility
		Calculate Code Metrics
		Project Dependencies
		Project Build Order
		Add
		Add Reference
		Add Web Reference
		Add Service Reference
	æ,	View Class Diagram
		Set as StartUp Project

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

This URL for other technologies:

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

1. 2× 1/2	Organization Un	Geographic Informa	ation Systems Center	الوحدة التنظيمية :	_
مَكُومَ تَرْبَحِيْتُ OVERNMENT OF DUBAI	Makani - Open Data		کاني	البيانات المفتوحة لم	بلديـة دبـي DUBAI MUNICIPALITY
	Manual to use Makan	i Web Service	ة الالكترونية لبيانات مكاني	دليل لاستخدام الخدم	

Add Service Reference	२ <mark>×</mark>		
To see a list of available services on a spec services, click Discover. <u>A</u> ddress: https://www.makani.ae/MakaniPublicDat	aService/MakaniPublic.svc		
<u>S</u> ervices:	Operations:		
▲	■		
1 service(s) found at address 'https://www.makani.ae/MakaniPublicDataService/MakaniPublic.svc'. <a href="https://www.makani.ae/MakaniPublicDataService/MakaniPublic.svc">https://www.makani.ae/MakaniPublicDataService/MakaniPublic.svc'</a>			
ServiceReference1			
Ad <u>v</u> anced	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 = newMakaniPublic.MakaniPublicClient();



## Web service - Function/ Methods:

Function	string GotMakapilpfoEromCoord(string latitude, string longitude	
Function	string Getward initior of Cool u(string latitude, string longitude,	
<b>B</b> • <i>A</i>		
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	
	Makani Number(a) with their apardinates if the	
	• Wakani Number(s) with their coordinates if the	
<ul> <li>Longitude value</li> </ul>	input coordinates fails 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.	
	<ul> <li>Latitude and Longitude for each Makani number</li> </ul>	
	<ul> <li>Building name (Arabic and English)</li> </ul>	
	Community name (Arabic and English)	
	• Community name (Arabic and English).	
	Emirate name (Arabic and English).	
Input Sample		
objClient.GetMakanilr	nfoFromCoord("25.2646373"," 55.312168","Public Remarks");	
Output Sample		
{		
COMMUNIT	( E": "AL RIGGA - 119".	
	, Δ"· "119 - Σί ψ"	
	E": "Dubai Municipality Main Offico"	
BLDG_NAME	. الأركبي - الم بلي الأركبسي : EIVIIKATE_E :	
"DUBAI",		
"EMIRATE_A"	"دبي",	
"MAKANI INI	FO": [{	
"MAH	(ANI": "30032 95320".	
"ΙΔΤ	ING": "25 2646373680001 55 3121682890001"	
"ENIT	NAME E"."	
	_NAIVIE_E . ,	
"EN I	_NAME_A": "",	
"ENT	_NO":" <i>",</i>	
"SHC	DRT_URL": " <u>http://www.makani.ae/q?l=E&amp;m=30032 95320</u> "	
}, {		
"MA	KANI": "29969 95333",	
"IAT	ING": "25.2647474540001.55.3115426040001".	
"ENIT	NAME F".""	
ENI	_IVAIVIE_A · ,	
"ENT	_NO": " ",	
"SHC	DRT_URL": " <u>http://www.makani.ae/q?l=E&amp;m=29969 95333</u> "	
}]		
}		



البيانات المفتوحة لمكاني



Manual to use Makani Web Service

Makani - Open Data

دليل لاستخدام الخدمة الالكترونية لبيانات مكاني

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

Function	string GetMakaniDetails(string makanino, string remarks)
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
<ul> <li>Makani number (valid number)</li> </ul>	<ul> <li>Makani Number.</li> <li>Entrance name (Arabic and English) for Makani number.</li> <li>URL for Makani location.</li> <li>Community name (Arabic and English).</li> <li>Building name (Arabic and English).</li> <li>Emirate name (Arabic and English).</li> <li>Latitude and Longitude for Makani.</li> </ul>
Input Sample	
objClient.GetMakaniDetails("30032 95320","Public Remarks");	
Output Sample	



{

البيانات المفتوحة لمكاني



Manual to use Makani Web Service

Makani - Open Data

دليل لاستخدام الخدمة الالكترونية لبيانات مكاني

"MAKANI": "30032 95320",	
"MAKANI_INFO": [{	
"COMMUNITY_E": "AL RIGGA	- 119",
الرزاة - 119": "COMMUNITY_A": "	1 •
"ENT_NAME_E": "",	
"ENT_NAME_A": "" <i>,</i>	
"ENT_NO": " ",	
"BLDG_NAME_E": "Dubai Mur	nicipality- Main Office",
- المبنى الرزيسي'' :''BLDG_NAME_A	:"EMIRATE_E": (الله) قدي
"DUBAI",	
"دبي" :"EMIRATE_A	
"LATLNG": "25.2646373680002	l,55.3121682890001",
"SHORT_URL": " <u>http://www.r</u>	<u>makani.ae/q?l=E&amp;m=30032 95320</u> "
}]	

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).		
	<ul> <li>Emirate name (Arabic and English).</li> </ul>		
Input Sample			
objClient.GetQRCc	odeForMakani("30032_95320","Public Remarks");		
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?I=E&E=R&m=3214569870		
Sharjah	http://www.makani.ae/q?I=E&E=S&m=1256085269		
UAQ	http://www.makani.ae/q?I=E&E=U&m=1258715951		
Output Sample			
{ "MAKANI": "30032 95320", "QRCODES": [{ "QRCODE_URL": "http://stg.gis.gov.ae/MakaniPublicData/QRCodeFiles_Server1/DUBAI_30032 95320.jpg", "EMIRATE_E": "DUBAI", "EMIRATE_A": "كبي" }]			