Customer

API Specification

for WeBeHome

CONTENTS

1. INTRODUCTION

This API is for WeBeHome customers that have **BASIC** or **PREMIUM** subscription.

The API gives access to WeBeHome and to the information stored to give you more advantages if our solution and give even more control over your home, company or cottage.

2. GENERAL INFORMATION

2.1. Contact Details

Company Name	WeBeHome AB
Tel:	+46 8 410 221 40
Email:	support@webehome.com

2.2. Background and Context

3. WORKFLOW

3.1. To get basic Customer configuration

Step 1: call GetCustomerConfig to get all of the customers BaseUnits. Remember the BaseUnitID.

Step 2: call GetBaseUnitConfig for each BaseUnit using the BaseUnitID to get a list of the devices that are connected and active for the BaseUnit.

3.2. To get Event Data

First time per BaseUnit, call GetEventData with LastDataID=0
That will return all events for the last 24 hours

Save the last DataID that is received in the list of Events returned

All other times, call GetEventData and set the LastDataID to the last DataID that was retrieved from that BaseUnit.

4. DATA INTO EXCEL USING WEB API

Data can be easily be imported to Microsoft Excel. When data is imported, the link is keep so it is very easy to update the content.

WARNING. Since the link is stored, also your LoginName and Password are stored so store your Excel sheet safe and don't send a Excel sheet to anyone else since they will get access to your login information.

4.1. Test in a browser

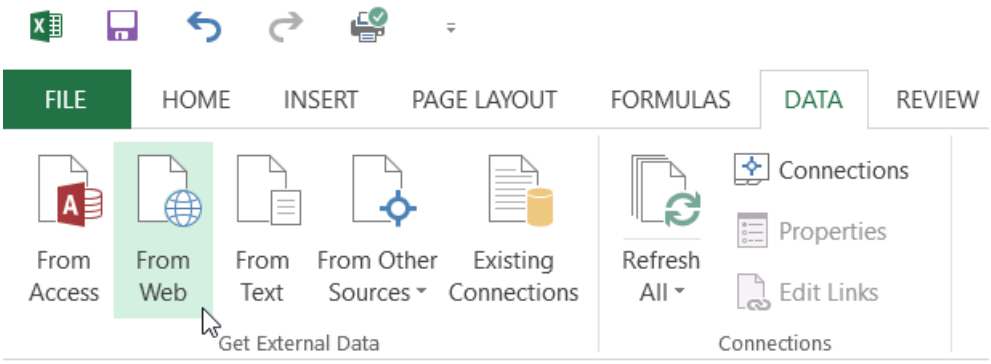
First test the URL in a browser to make sure you receive the values you like
For example:

https://Webehome.com/API/WebAPI.aspx?Function=GetSubUnitStatus&LoginName=john@gmail.com&Password=mypassword&HtmlTable=yes

Notice: When using Excel, it is important to include "HtmlTable=yes" in the URL

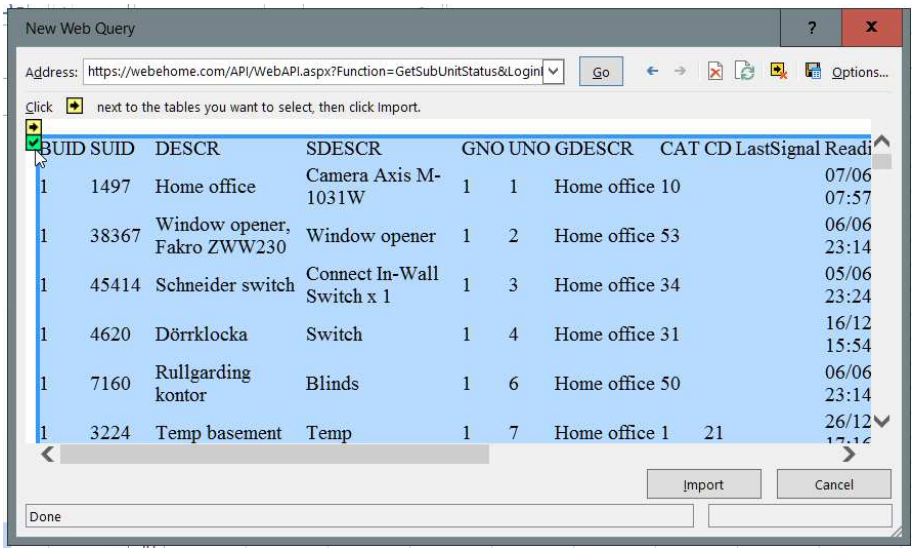
4.2. Import into Excel

Click on the "From Web" in the "Data" tab.



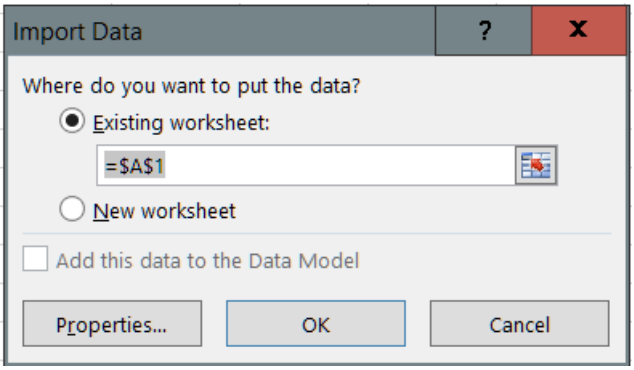
Paste in the URL you like (for example the one above but with our LoginName and Password) and press the "**Go**" button

When the data is shown, **click** on the **second** yellow arrow to select the data so the "arrow" is changed to a "checked" symobol as below.
When it is checked, then press the Import button

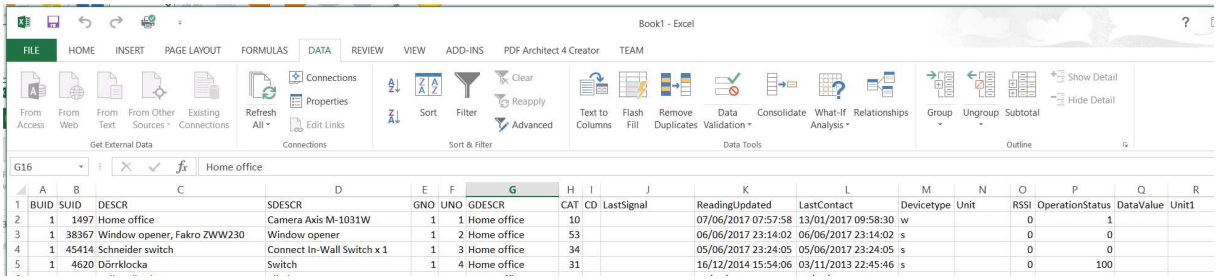


GUID	SUID	DESCR	SDESCR	GNO	UNO	GDESCR	CAT	CD	LastSignal	Readi
1	1497	Home office	Camera Axis M-1031W	1	1	Home office	10			07/06 07:57
1	38367	Window opener, Fakro ZWW230	Window opener	1	2	Home office	53			06/06 23:14
1	45414	Schneider switch	Connect In-Wall Switch x 1	1	3	Home office	34			05/06 23:24
1	4620	Dörrklocka	Switch	1	4	Home office	31			16/12 15:54
1	7160	Rullgarding kontor	Blinds	1	6	Home office	50			06/06 23:14
1	3224	Temp basement	Temp	1	7	Home office	1	21		26/12

Press OK on the Import data message. Notice: If you get a different message you might not have the area selected above (=the "checked" symbol is shown)



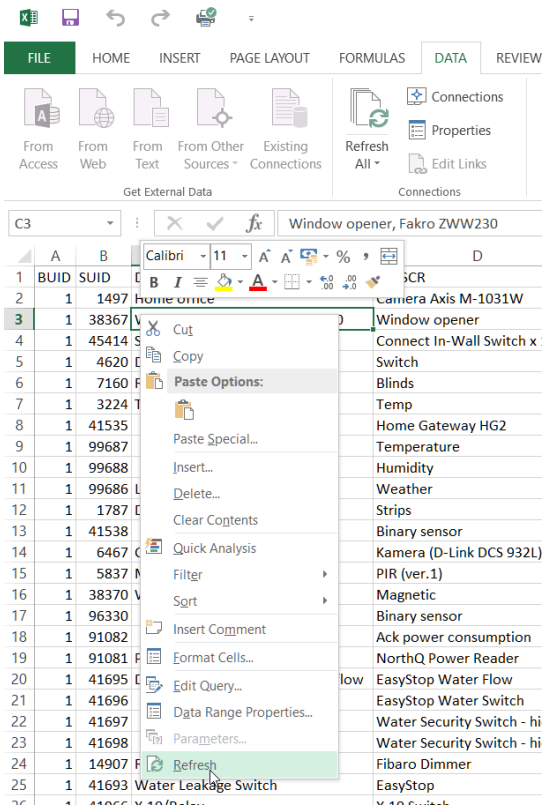
Now your data should be imported to Excel.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	BUID	SUID	DESCR	SDESCR	GNO	UNO	GDESCR	CAT	CD	LastSignal	ReadingUpdated	LastContact	Devicetype	Unit	RSSI	OperationStatus	DataValue	Unit1
2	1	1497	Home office	Camera Axis M-1031W	1	1	Home office	10			07/06/2017 07:57:58	13/01/2017 09:58:30	w		0	1		
3	1	38367	Window opener, Fakro ZWW230	Window opener	1	2	Home office	53			06/06/2017 23:14:02	06/06/2017 23:14:02	s		0	0		
4	1	45414	Schneider switch	Connect In-Wall Switch x 1	1	3	Home office	34			05/06/2017 23:24:05	05/06/2017 23:24:05	s		0	0		
5	1	4620	Dörrklocka	Switch	1	4	Home office	31			16/12/2014 15:54:06	03/11/2013 22:45:46	s		0	100		

The data has the link stored to WeBeHome.

By right click anywhere on the return data and the select “**Refresh**” it will refresh with new data from WeBeHome.



	A	B	D
1	BUID	SUID	SCR
2	1	1497	Camera Axis M-1031W
3	1	38367	Window opener
4	1	45414	Connect In-Wall Switch x
5	1	4620	Switch
6	1	7160	Blinds
7	1	3224	Temp
8	1	41535	Home Gateway HG2
9	1	99687	Temperature
10	1	99688	Humidity
11	1	99686	Weather
12	1	1787	Strips
13	1	41538	Binary sensor
14	1	6467	Kamera (D-Link DCS 932L)
15	1	5837	PIR (ver.1)
16	1	38370	Magnetic
17	1	96330	Binary sensor
18	1	91082	Ack power consumption
19	1	91081	NorthQ Power Reader
20	1	41695	EasyStop Water Flow
21	1	41696	EasyStop Water Switch
22	1	41697	Water Security Switch - hi
23	1	41698	Water Security Switch - hi
24	1	14907	Fibaro Dimmer
25	1	41693	EasyStop

4.3. Web API

4.4. Introduction

The WEB API is very easy to use by anyone from any Web browser. Just type/part the URL in your Web browser according to the description.

Functions that return data are formatted in a | delimited text.

4.5. Login automatically using LoginName and Password

Example

https://webehome.com/Public/login.aspx?LoginName=<LoginName>&Password=<Password>

The user will then be logged in directly to their start page in WeBeHome.

4.6. Login automatically and go to a specific page

Example

https://webehome.com/Public/login.aspx?LoginName=<LoginName>&Password=<Password>&LocationID=<locationID>&targetPage=cameraArchive

This will open the camera archive and auto play the last recorded image sequence.

Possible values for targetPage are:

status (default)

24hour

cameraLive

cameraArchive

4.7. Take action or get status using URL

https://webehome.com/Public/login.aspx?LoginName=<LoginName>&Password=<Password>&Action=home

This will change the system to be in home mode.

Possible arguments to Action is

disarm	
home	
away	
clear	
status	Only when ActionOnly=yes
statusdetailed	Only when ActionOnly=yes
startscenario&ScenarioID=X	Starta Scenario Action Set with ID = X

Optional arguments

LocationID=<id of the location>	For those who has multi locations
ActionOnly=yes	Only perform action, no login

Example to check status. LocationID is only necessary if user have access to more than one Location

https://webehome.com/Public/login.aspx?LoginName=<LoginName>&Password=<Password>&LocationID=<1235>&Action=status&ActionOnly=yes

Example to start a Scenario Action Set. LocationID is only necessary if user have access to more than one Location

https://webehome.com/Public/login.aspx?LoginName=<LoginName>&Password=<Password>&LocationID=<1235>&Action=startScenario&ScenarioID=12456

statusdetailed returns:

Operation mode in numeric code, 0=disarmed, 1=home, 2=away,8=monitor

Description of Location

Operation mode in text

Operation mode changed by

Operation mode change date/time

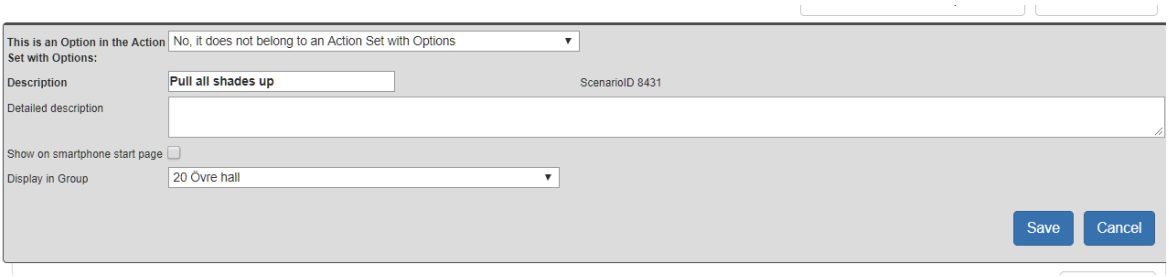
No of alarm and important events

startscenario **Start a Scenario Action Set**

Only works when ActionOnly=yes, Start the ScenarioID=xxxx

Example:

https://Webehome.com/Public/login.aspx?LoginName=<LoginName>&Password=<Password>&LocationID=<1235>&Action=startscenario&ScenarioID=8431&ActionOnly=yes



4.8. Chart Image

Get a chart as a jpg image.

https://Webehome.com/API/GraphImage.ashx?

LoginName= The users login name
Password= The users password
SessionID= SessionID could be used instead of password
SUID1= ID of the sensor which values should be shown
OPTIONAL:
SUID2=
...
SUID8=

toDT=	To date time, default = now, format = yyyy-mm-dd_hhQmm
BaseUnitID=	Id of Base Unit, if given, then it takes first 8 devices from the BaseUnit
LanguageID=	1=Swedish, 2=English, 3=Thai, 5=Spanish, 6=German, default=2
Period=	No of days, possible values = 1, 3, 7, 14, 31, 62, default = 7
Width=	Width in pixels, default 600
Height=	Height in pixels, default 300
Group=	XXX

Example

https://Webehome.com/API/GraphImage.ashx?LoginName=<loginname>&Password=<password>&SUID1=1230&SUID2=794&Width=1400&Height=700

4.9. Create Event (test phase)

Create an event in the event log and update information on the device.

https://webehome.com/API/EventAPI.aspx?

SUID = SubUnit ID
EID = Event ID
UN = Login name
PW = Password

Event ID:
20019 = Start/open,
20020 = Stop/close
20021 = Tamper
20010 = Supervision

Example:

https://webehome.com/API/EventAPI.aspx?SUID=1234_EID=20019_UN=testuser_PW=secret

IMPORTANT: The arguments for this function should be separated by _instead of & since not some devices can't handle a string separated with &.

The API accepts both http and https calls. http should be avoided if possible since it is a security risk.

4.10. Get customer configuration

Returns basic information about Customer and Base Unit.

If the customer has more than one Base Unit, a <table> is return for each Base Unit and customer information is the same.

Name of function	GetCustomerConfig	
Input	LoginName	
	Password	
	HtmlTable (optional)	values: yes, no Default = No
	Heading (optional)	Include headings: yes, no Default = Yes

es, no

Output

Tag/Heading	Field	Type	
CID	CustomerID	int	
CN	CustomerName	nchar(100)	
LID	LanguageID	int	
TZ	TimeZone	int	
CoID	CountryID	int	
BUID	BaseUnitID	int	
DESCR	Descr	nchar(50)	
RIP	RemoteIP	char(15)	IP of last connection
CDT	ConnectionDT	datetime	Last time a conncetion was done
DDT	DisconnectionDT	datetime	When disconnection was done
CRDT	CreationDT	datetime	When it was created

ConnectionDT and DisconnectionDT returns 2000-01-01 when no date stored

Example:

To display with | as field separator

https://Webehome.com/API/WebAPI.aspx?Function=GetCustomerConfig&LoginName=<loginname>&Password=<password>

To display in HTML table

https://Webehome.com/API/WebAPI.aspx?Function=GetCustomerConfig&LoginName=<loginname>&Password=<password>&HtmlTable=yes

4.11. Get base unit configuration

Returns a list of the Sub Units that is attached to the Base Unit.

Name of function	GetBaseUnitConfig	
Input	LoginName	
	Password	
	BaseUnitID	Give ID of Base Unit or leave empty
	HtmlTable (optional)	values: yes, no Default = No
	Heading (optional)	Include headings: yes, no Default = Yes

Output

Tag/Header	Field	Type	
BUID	BaseUnitID	int	
SUID	SubUnitID	int	
SUTID	SubUnitTypeID	int	
SDESCR	SensorDescr	char(200)	Standard desc of the type of device
CAT	Category	int	
DESCR	Descr	char(50)	Customers name/descr of unit
GNO	GroupNo	smallint	
UNO	UnitUno	smallint	
GDESCR	Group Description	char(30)	

Example to get for all BaseUnits the user has access to

https://Webehome.com/API/WebAPI.aspx?Function=GetBaseUnitConfig&LoginName=<loginname>&Password=<password>

Example to get for a selected BaseUnit

https://Webehome.com/API/WebAPI.aspx?Function=GetBaseUnitConfig&LoginName=<loginname>&Password=<password>&BaseUnitID=1234

4.12. Get event data

Returns a list of all event data since the LastDataID. Max 5000 rows are returned.

Name of function	GetEventData	
Input	LoginName	
	Password	
	BaseUnitID	Give ID of Base Unit or leave empty
	LastDataID	From which ID to start, if empty then it takes last 24 hours
	HtmlTable (optional)	values: yes, no Default = No
	Heading (optional)	Include headings: yes, no Default = Yes

Output

Tag/Header	**Field**	**Type**	
BUID	BaseUnitID	int	
SUID	SubUnitID	int	
DID	DataID	int	
UID	UserID	int	
DT	ReceivedDT	datetime	Local datetime of event
EID	EventID	int	
OS	OperationStatus	smallint	For sensors etc
DV	DataValue	double	

Example to get all data for a BaseUnit

https://Webehome.com/API/WebAPI.aspx?Function=GetEventData&LoginName=<name>&Password=<password>&BaseUnitID=1234&LastDataID=0

4.13. Get status

Returns a list of a Base Units all Sub Units (devices)

Name of function	GetSubUnitStatus	
Input	LoginName	
	Password	
	BaseUnitID	Give ID of Base Unit or leave empty
	SubUnitID (optional)	Give ID of single Sub Unit or leave empty
	HtmlTable (optional)	values: yes, no Default = No
	Heading (optional)	Include headings: yes, no Default = Yes
	Minimize (optional)	Minimize columns: yes, no Default = No

Output

Tag/Header	Field	Type	
BUID	BaseUnitID	int	
SUID	SubUnitID	int	
DESCR	Descr	char(50)	Customers name/descr of unit
SDESCR	SensorDescr	char(200)	Standard desc of the type of device
GNO	GroupNo	smallint	
UNO	UnitUno	smallint	
GDESCR	Group Description	char(30)	
CAT	Category	int	
CD	Current data	int	
LastSignal		varchar	
ReadingUpdated		datetime	
LastContact		datetime	
DeviceType		varchar	
Unit		varchar	
RSSI		int	
OperationStatus		int	
DataValue		float	
Unit		varchar	

Example:

https://Webehome.com/API/WebAPI.aspx?Function=GetSubUnitStatus&LoginName=<loginname>&Password=<password>&BaseUnitID=<baseunitid>

4.14. Get measurement data

Returns a list of selected measurement data. Max 5000 rows are returned.

Name of function	GetMeasurementData	
Input	LoginName	
	Password	
	BaseUnitID	Give ID of Base Unit or leave empty
	SubUnitID	Give ID, a comma separated list of ID or leave empty
	FromDT	From date yyyy-mm-dd, empty = last 7 days
	HtmlTable (optional)	values: yes, no Default = No
	Heading (optional)	Include headings: yes, no Default = Yes

Output

Tag/Header	Field	Type	
BUID	BaseUnitID	int	
SUID	SubUnitID	int	
DID	DataID	int	
DT	ReceivedDT	datetime	Local datetime of event
VAL	Value	smallint	

Example 1: Get all measurement data from the all accessories the location

https://Webehome.com/API/WebAPI.aspx?Function=GetMeasurementData&LoginName=<yourLoginName>&Password=<yourPassword>&BaseUnitID=1234&FromDT=2015-11-04

Example 2: Get all measurement data from the specified accessory

https://Webehome.com/API/WebAPI.aspx?Function=GetMeasurementData&LoginName=<yourLoginName>&Password=<yourPassword>&SubUnitID=5678&FromDT=2015-11-04

4.15. Change status of switch/dimmer

Name of function	SetSwitch	
Input	LoginName	
	Password	
	BaseUnitID	
	SubUnitID	
	Status	0=off, 1-98 dim level, 99=on
Output		
	Returns “ok” if switch was found and command sent	

Example:

To turn on a switch

https://Webehome.com/API/WebAPI.aspx?Function=SetSwitch&LoginName=<loginname>&Password=<password>&BaseUnitID=<id>&SubUnitID=<id>&Status=99

4.16. Get reference list of Events

Returns a reference list of all EventIDs and the description in the language that is set on the customer that the user belongs to.

Name of function	GetReferenceEvents	
Input	LoginName	
	Password	
	HtmlTable (optional)	values: yes, no Default = No
	Heading (optional)	Include headings: yes, no Default = Yes

Output

Tag/Header	Field	Type
EID	EventID	int
EDESCR	Event Descr	char(100)
LEC1	Look event code	char(10)

https://Webehome.com/API/WebAPI.aspx?Function=GetReferenceEvents&LoginName=<loginname>&Password=<password>

4.17. Example

This is an example on how to get information of ID for temperature sensors that can be used to get display measurements in the graph.

First get the ID of the temperature sensors by getting information about all of our base units, paste the following URL in your web browser replacing the login name and password with your information:

https://Webehome.com/API/WebAPI.aspx?Function=GetBaseUnitConfig&LoginName=<loginname>&Password=<password>

The output should be similar to:

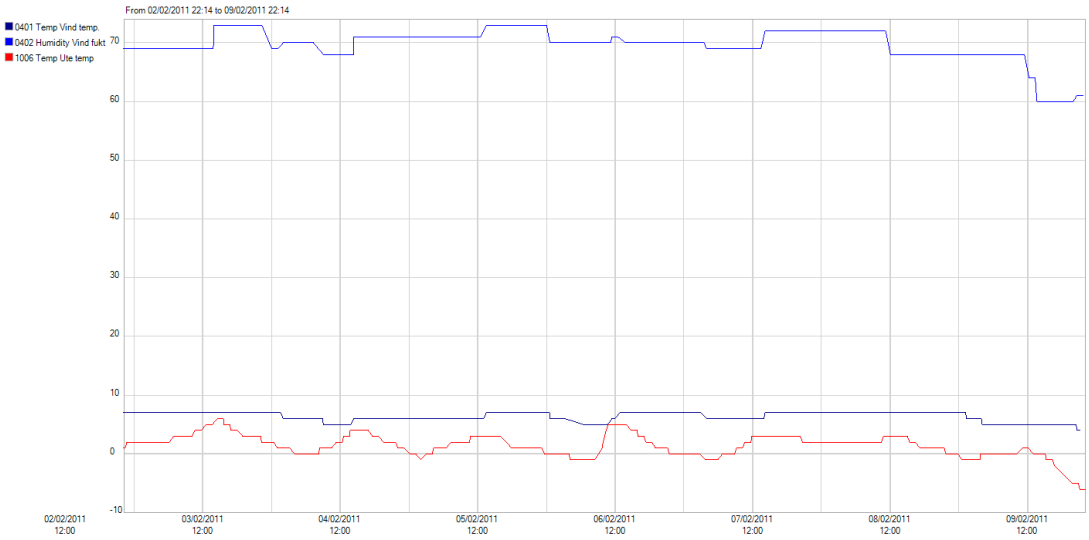
```
BUID|SUID|SUTID|SDESCR|CAT|DESCR|GNO|UNO|GDESCR|
1|13|3|Rörelse|7|Källare.|1|2|Källare
1|22|14|Temp|1|Källare temp|1|4|Källare
1|16|2|Magnet|2|Källardörren|1|10|Källare
1|1270|1|Rök|0|Källare|1|10|Källare
1|1497|48|Kamera Axis M1031-W|10|Källaren (Axis)|1|10|Källare
1|1608|49|X.10 Strömbrytare|30|Lampa vid ingången|1|20|Källare
1|15|12|Översv.|20|Diskmaskin|2|1|Bottenvåning
1|2207|56|Kamera (Vivotek IP7330)|10|Ytterdörr (Vivotek IP7330)|2|1|Bottenvåning
1|798|1|Rök|0|Brandvarnare kök|2|2|Bottenvåning
1|1230|14|Temp|1|Vardagsrum|2|2|Bottenvåning
1|1783|3|Rörelse|7|Glasveranda|2|6|Bottenvåning
1|1981|2|Magnet|2|Dörr glasveranda|2|8|Bottenvåning
1|1092|3|Rörelse|7|Bottenvåning.|2|10|Bottenvåning
1|2161|43|Magnet|2|Ytterdörr|2|11|Bottenvåning
1|17|1|Rök|0|Brandlarm Övervåning|3|4|Ovanvåning
1|1093|3|Rörelse|7|Sovrum med balkong|3|5|Ovanvåning
1|14|14|Temp|1|Vind temp.|4|1|Vind
1|18|13|L.fukt|1|Vind fukt|4|2|Vind
1|1268|14|Temp|1|Ute temp|10|6|Utomhus
```

Column 2, SUID contains the ID of each sensor. This is the ID that is used in the Graph. In this case three sensors have been selected, (ID marked with bold) the temp and humidity on the attic and the outside temp.

Use these values and make the second URL to get a Graph

https://Webehome.com/API/GraphImage.ashx?LoginName=<loginname>&Password=<password>&SUID1=14&SUID2=18&SUID3=1268&Width=1400&Height=700

The URL will return a nice graph of the sensors selected into the browser window. (the picture below is a minimized copy of the output)



5. WEBSERVICE API

5.1. Introduction

The WebServiceAPI is for customers who want to get data into their own solutions directly from WeBeHome. It is good for program to program communication.

The API is found at https://Webehome.com/API/WebServiceAPI.asmx

All data is returned wrapped into XML tags.

Datetime are formatted like yyyy-mm-dd hh:mi:ss

All date and times are local time based on which TimeZone is set on the customer

5.2. Get customer configuration

Returns basic information about Customer and Base Unit.

If the customer have more than one Base Unit, a <table> is return for each Base Unit and customer information is the same.

Name of function	GetCustomerConfig		
Input	CustomerID	char(8000)	***
	LoginName	char(50)	If Admin, this is Admin credentials
	Password	char(30)	If Admin, this is Admin credentials

Three different ways to use CustomerID

1) The ID of the customer that is wanted
2) 0 ➔ Returns all customer and base units that the user belongs to
3) Comma separated list of CustomerIDs

Output

Tag	Field	Type	
CID	CustomerID	int	
CN	CustomerName	nchar(100)	
LID	LanguageID	int	
TZ	TimeZone	int	
CoID	CountryID	int	
BUID	BaseUnitID	int	
DESCR	Descr	nchar(50)	
RIP	RemoteIP	char(15)	IP of last connection
CDT	ConnectionDT	datetime	Last time a conncetion was done
DDT	DisconnectionDT	datetime	When disconnection was done
CRDT	CreationDT	datetime	When it was created

ConnectionDT and DisconnectionDT returns 2000-01-01 when no date stored

Example of return value:

<NewDataSet> <Table> <CID>1</CID> <CN>ABELL</CN> <LID>2</LID> <TZ>110</TZ> <CoID>123</CoID> <BUID>1</BUID> <DESCR>Hemma</DESCR> <RIP>81.232.69.251</RIP> <CDT>2010-08-27 06:20:43</CDT> <DDT>2000-01-01 00:00:00</DDT> <CRDT>2000-01-01 00:00:00</CRDT> </Table> <Table> <CID>1</CID> <CN>ABELL</CN> <LID>2</LID> <TZ>110</TZ> <CoID>123</CoID> <BUID>4</BUID> <DESCR>Kontor (4)</DESCR> <RIP>90.233.128.125</RIP> <CDT>2010-08-28 16:48:55</CDT> <DDT>2000-01-01 00:00:00</DDT> <CRDT>2008-11-07 10:11:55</CRDT> </Table> <Table> <CID>1</CID> <CN>ABELL</CN> <LID>2</LID> <TZ>110</TZ> <CoID>123</CoID> <BUID>1063</BUID> <DESCR>HEMMA2</DESCR> <RIP>83.178.32.52</RIP> <CDT>2010-08-25 05:14:15</CDT> <DDT>2000-01-01 00:00:00</DDT> <CRDT>2010-06-17 10:52:16</CRDT> </Table> </NewDataSet>

5.3. Get base unit configuration

Returns a list of a the Sub Units that is attached to the Base Unit.

Name of function	GetBaseUnitConfig		
Input	BaseUnitID	int	
	LoginName	char(50)	If Admin, this is Admin credentials
	Password	char(30)	If Admin, this is Admin credentials

Output

Tag	Field	Type	
BUID	BaseUnitID	int	
SUID	SubUnitID	int	
SUTID	SubUnitTypeID	int	
SDESCR	SensorDescr	char(200)	Standard desc of the type of device
CAT	Category	int	
DESCR	Descr	char(50)	Customers name/descr of unit
GNO	GroupNo	smallint	
UNO	UnitUno	smallint	
GDESCR	Group Description	char(30)	

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5.4. Get event data

Returns a list of all event data since the LastDataID

Name of function	GetEventData		
Input	BaseUnitID	char(8000)	***
	LoginName	char(50)	If Admin, this is Admin credentials
	Password	char(30)	If Admin, this is Admin credentials
	LastDataID	int	0=take last 24 hours of data <>0 Take next higher DataID

Output

Tag	Field	Type	
BUID	BaseUnitID	int	
SUID	SubUnitID	int	
DID	DataID	int	
UID	UserID	int	
DT	ReceivedDT	datetime	Local datetime of event
EID	EventID	int	
OS	OperationStatus	smallint	For readings etc

*** Three ways of supply BaseUnitID

1) BaseUnitID = 10 ➔ select data from BaseUnit with BaseUnitID = 10
2) BaseUnitID = 0 ➔ select data from all BaseUnits which has the same Customer as the LoginName. When Admin credentials, take all BaseUnit that belongs to the Admin
3) BaseUnitID = 1,4,10,20 ➔ select data from all of the given BaseUnitID's

Meaning of OperationStatus

For magnetic contacts: 72 =Closed, 64=Open
For light detector: 8 =Below limit/low (Light off), 12 =Above limit (Light on)
For Switches: 100 = Off, 199 = On
For measurements: -127 to +127, 128 = no value

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5.5. GetReferenceEvents

Returns a reference list of all EventIDs and the description in the language that is set on the customer that the user belongs to.

Name of function	GetReferenceEvents	
Input	LoginName	char(50)
	Password	char(30)

Output

Tag	Field	Type
EID	EventID	int
EDESCR	Event Descr	char(100)
LEC1	Look event code	char(10)

Start position of EventID defines the source

1xxxx	Event from Base Unit
2xxxx	Signal from Sub Unit
3xxxx	Message from WeBeHome

Example of return value:

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